

LEARNING YOUR FEELINGS

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INTRODUÇÃO

CONHECER O CÉREBRO AJUDA A COMPREENDER MELHOR O SER HUMANO, COMO AGEM PORQUE AGEM, COMO SE COMPORTAM, O QUE DESPERTA SEUS DESEJOS, SUA ANSIEDADE, SUA AGRESSIVIDADE, SUA EMPATIA, SEU ENVOLVIMENTO E TAL COMPREENSÃO FAVORECE AS INTERAÇÕES ENTRE AS PESSOAS DE FORMA MAIS HARMÔNICA. NESTA PERSPECTIVA, UM MEIO EFICAZ E SIMPLES PARA AUXILIAR ALUNOS A ENTENDEREM DE FORMA CLARA E OBJETIVA SOBRE O CÉREBRO HUMANO E COMO OS SENTIMENTOS COOPERAM PARA O BEM-ESTAR DAS PESSOAS SERÁ UMA FORMA INTERATIVA E MAIS FÁCIL DE APRENDER E SE CONHECER.

OBJETIVO

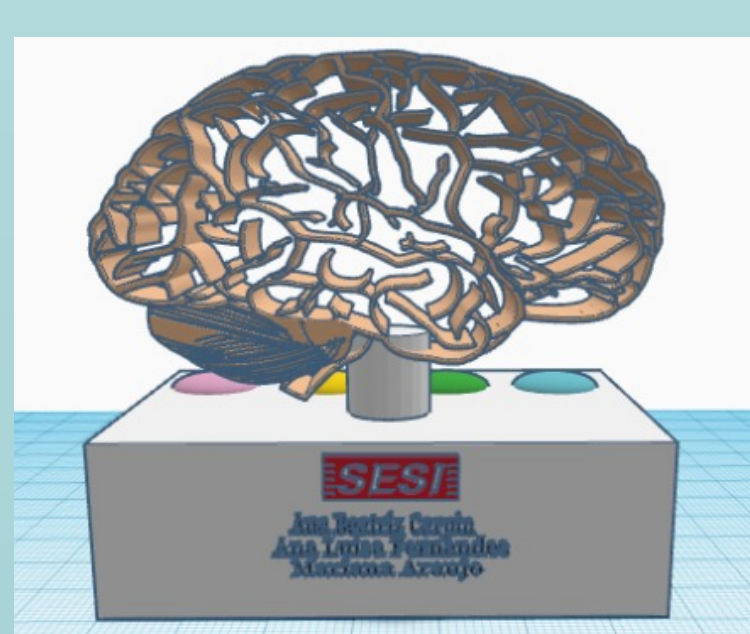
PROPORCIONAR UMA FERRAMENTA EDUCATIVA PARA ALUNOS E PROFESSORES PARA QUE COMPRENDAM AS FUNCIONALIDADES DOS LOBULOS E COMO NOSSOS SENTIMENTOS ATUAM NO CÉREBRO HUMANO.

RESULTADOS

AO TRABALHAR COM UM PROTÓTIPO NA 1ª VERSÃO COM ALUNOS DO 4º ANO DO ENSINO FUNDAMENTAL, OBSERVOU-SE MAIOR INTERAÇÃO E INTERESSE DOS ESTUDANTES AO MANUSEAR E MODELAR O CÉREBRO E DECIDIMOS APROFUNDAR O ESTUDO DOS LOBULOS CEREBRAIS. ANALISAMOS QUE AO REALIZARMOS ESSA DINÂMICA, A IDEIA DO CÉREBRO 3D SERÁ ENRIQUECEDORA E UMA EXCELENTE FERRAMENTA DE ENSINO E APRENDIZAGEM. A PROGRAMAÇÃO ESTÁ PRONTA E O PRÓXIMO PASSO É A PRÓTOTIPAGEM DO PROJETO FÍSICO. A MONTAGEM 3D DO CÉREBRO HUMANO FOI REALIZADA NO APLICATIVO TINKERCAD, ALÉM DE CONSTRUIR A ESTRUTURA DO PROGRAMA QUE VAMOS UTILIZAR NO PROTÓTIPO. TIVEMOS A GINCANA REALIZADA NA ESCOLA SESI, ONDE ALUNOS MONTARAM O CÉREBRO DE ORIGAMI E PUDERAM ENTENDER UM POUCO A ESTRUTURA. FIZEMOS A APRESENTAÇÃO DA SALA DE AULA, COM PROPOSTAS INTERATIVAS QUE DESPERTASSEM SENTIMENTOS E EMOÇÕES NOS ESTUDANTES E IDENTIFICAVAMOS COM IMAGENS AS PARTES DO CÉREBRO QUE ESTAVAM SENDO ATIVADAS.

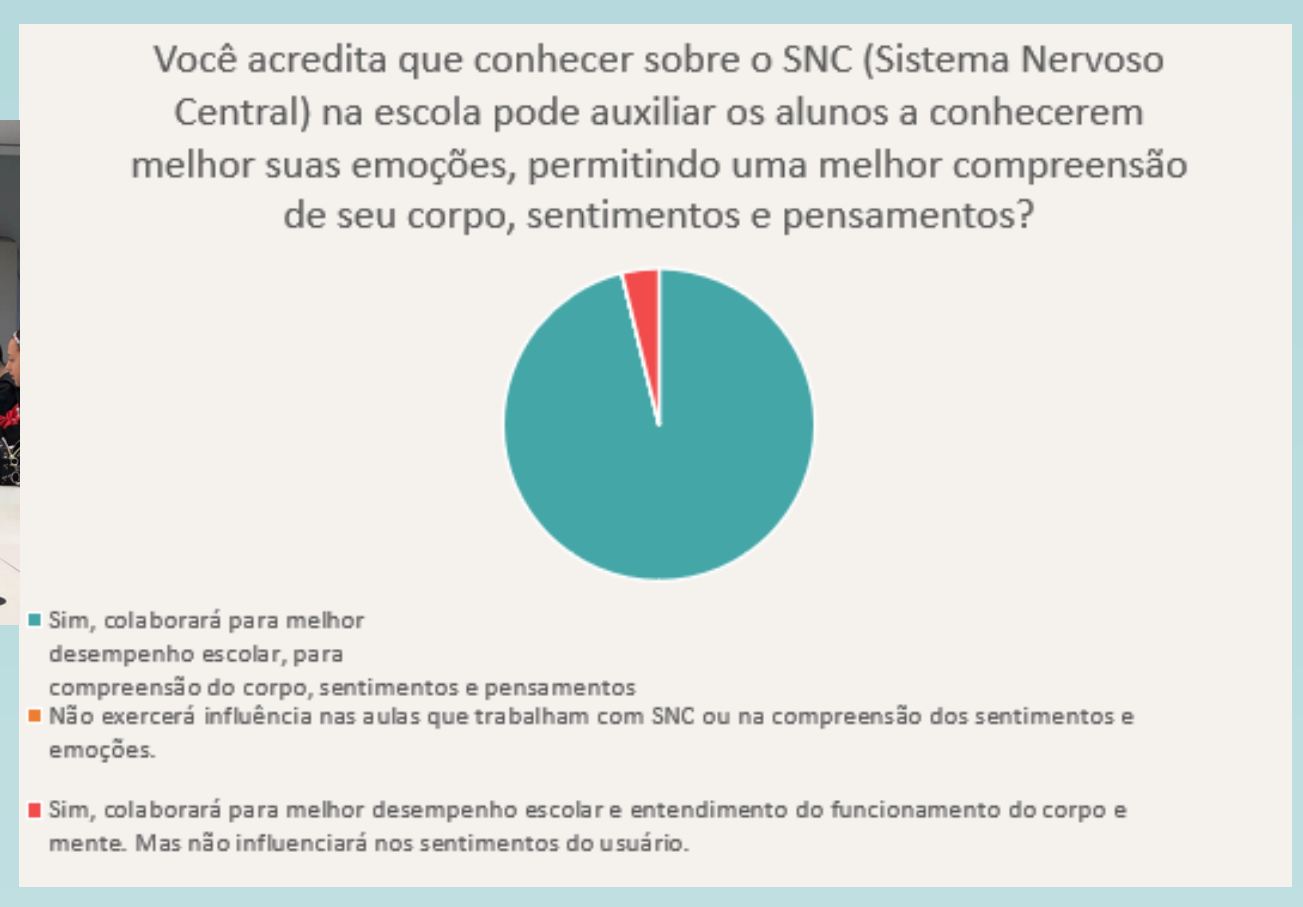
```
void setup() {
  Serial.begin(9600);
  pinMode(LED_BUILTIN, OUTPUT);
  pinMode(SW1, INPUT);
  pinMode(SW2, INPUT);
  pinMode(SW3, INPUT);
  pinMode(SW4, INPUT);
  pinMode(SW5, INPUT);
  pinMode(SW6, INPUT);
  pinMode(SW7, INPUT);
  pinMode(SW8, INPUT);
  pinMode(SW9, INPUT);
  pinMode(SW10, INPUT);
  pinMode(SW11, INPUT);
  pinMode(SW12, INPUT);
  pinMode(SW13, INPUT);
  pinMode(SW14, INPUT);
  pinMode(SW15, INPUT);
  pinMode(SW16, INPUT);
  pinMode(SW17, INPUT);
  pinMode(SW18, INPUT);
  pinMode(SW19, INPUT);
  pinMode(SW20, INPUT);
  pinMode(SW21, INPUT);
  pinMode(SW22, INPUT);
  pinMode(SW23, INPUT);
  pinMode(SW24, INPUT);
  pinMode(SW25, INPUT);
  pinMode(SW26, INPUT);
  pinMode(SW27, INPUT);
  pinMode(SW28, INPUT);
  pinMode(SW29, INPUT);
  pinMode(SW30, INPUT);
  pinMode(SW31, INPUT);
  pinMode(SW32, INPUT);
  pinMode(SW33, INPUT);
  pinMode(SW34, INPUT);
  pinMode(SW35, INPUT);
  pinMode(SW36, INPUT);
  pinMode(SW37, INPUT);
  pinMode(SW38, INPUT);
  pinMode(SW39, INPUT);
  pinMode(SW40, INPUT);
  pinMode(SW41, INPUT);
  pinMode(SW42, INPUT);
  pinMode(SW43, INPUT);
  pinMode(SW44, INPUT);
  pinMode(SW45, INPUT);
  pinMode(SW46, INPUT);
  pinMode(SW47, INPUT);
  pinMode(SW48, INPUT);
  pinMode(SW49, INPUT);
  pinMode(SW50, INPUT);
  pinMode(SW51, INPUT);
  pinMode(SW52, INPUT);
  pinMode(SW53, INPUT);
  pinMode(SW54, INPUT);
  pinMode(SW55, INPUT);
  pinMode(SW56, INPUT);
  pinMode(SW57, INPUT);
  pinMode(SW58, INPUT);
  pinMode(SW59, INPUT);
  pinMode(SW60, INPUT);
  pinMode(SW61, INPUT);
  pinMode(SW62, INPUT);
  pinMode(SW63, INPUT);
  pinMode(SW64, INPUT);
  pinMode(SW65, INPUT);
  pinMode(SW66, INPUT);
  pinMode(SW67, INPUT);
  pinMode(SW68, INPUT);
  pinMode(SW69, INPUT);
  pinMode(SW70, INPUT);
  pinMode(SW71, INPUT);
  pinMode(SW72, INPUT);
  pinMode(SW73, INPUT);
  pinMode(SW74, INPUT);
  pinMode(SW75, INPUT);
  pinMode(SW76, INPUT);
  pinMode(SW77, INPUT);
  pinMode(SW78, INPUT);
  pinMode(SW79, INPUT);
  pinMode(SW80, INPUT);
  pinMode(SW81, INPUT);
  pinMode(SW82, INPUT);
  pinMode(SW83, INPUT);
  pinMode(SW84, INPUT);
  pinMode(SW85, INPUT);
  pinMode(SW86, INPUT);
  pinMode(SW87, INPUT);
  pinMode(SW88, INPUT);
  pinMode(SW89, INPUT);
  pinMode(SW90, INPUT);
  pinMode(SW91, INPUT);
  pinMode(SW92, INPUT);
  pinMode(SW93, INPUT);
  pinMode(SW94, INPUT);
  pinMode(SW95, INPUT);
  pinMode(SW96, INPUT);
  pinMode(SW97, INPUT);
  pinMode(SW98, INPUT);
  pinMode(SW99, INPUT);
  pinMode(SW100, INPUT);
}
```

```
void loop() {
  if (digitalRead(SW1) == LOW) {
    digitalWrite(LED_BUILTIN, HIGH);
    Serial.println("SW1");
    digitalWrite(LED_BUILTIN, LOW);
    delay(500);
  }
  if (digitalRead(SW2) == LOW) {
    digitalWrite(LED_BUILTIN, HIGH);
    Serial.println("SW2");
    digitalWrite(LED_BUILTIN, LOW);
    delay(500);
  }
  if (digitalRead(SW3) == LOW) {
    digitalWrite(LED_BUILTIN, HIGH);
    Serial.println("SW3");
    digitalWrite(LED_BUILTIN, LOW);
    delay(500);
  }
  if (digitalRead(SW4) == LOW) {
    digitalWrite(LED_BUILTIN, HIGH);
    Serial.println("SW4");
    digitalWrite(LED_BUILTIN, LOW);
    delay(500);
  }
  if (digitalRead(SW5) == LOW) {
    digitalWrite(LED_BUILTIN, HIGH);
    Serial.println("SW5");
    digitalWrite(LED_BUILTIN, LOW);
    delay(500);
  }
  if (digitalRead(SW6) == LOW) {
    digitalWrite(LED_BUILTIN, HIGH);
    Serial.println("SW6");
    digitalWrite(LED_BUILTIN, LOW);
    delay(500);
  }
  if (digitalRead(SW7) == LOW) {
    digitalWrite(LED_BUILTIN, HIGH);
    Serial.println("SW7");
    digitalWrite(LED_BUILTIN, LOW);
    delay(500);
  }
  if (digitalRead(SW8) == LOW) {
    digitalWrite(LED_BUILTIN, HIGH);
    Serial.println("SW8");
    digitalWrite(LED_BUILTIN, LOW);
    delay(500);
  }
  if (digitalRead(SW9) == LOW) {
    digitalWrite(LED_BUILTIN, HIGH);
    Serial.println("SW9");
    digitalWrite(LED_BUILTIN, LOW);
    delay(500);
  }
  if (digitalRead(SW10) == LOW) {
    digitalWrite(LED_BUILTIN, HIGH);
    Serial.println("SW10");
    digitalWrite(LED_BUILTIN, LOW);
    delay(500);
  }
  if (digitalRead(SW11) == LOW) {
    digitalWrite(LED_BUILTIN, HIGH);
    Serial.println("SW11");
    digitalWrite(LED_BUILTIN, LOW);
    delay(500);
  }
  if (digitalRead(SW12) == LOW) {
    digitalWrite(LED_BUILTIN, HIGH);
    Serial.println("SW12");
    digitalWrite(LED_BUILTIN, LOW);
    delay(500);
  }
  if (digitalRead(SW13) == LOW) {
    digitalWrite(LED_BUILTIN, HIGH);
    Serial.println("SW13");
    digitalWrite(LED_BUILTIN, LOW);
    delay(500);
  }
  if (digitalRead(SW14) == LOW) {
    digitalWrite(LED_BUILTIN, HIGH);
    Serial.println("SW14");
    digitalWrite(LED_BUILTIN, LOW);
    delay(500);
  }
  if (digitalRead(SW15) == LOW) {
    digitalWrite(LED_BUILTIN, HIGH);
    Serial.println("SW15");
    digitalWrite(LED_BUILTIN, LOW);
    delay(500);
  }
  if (digitalRead(SW16) == LOW) {
    digitalWrite(LED_BUILTIN, HIGH);
    Serial.println("SW16");
    digitalWrite(LED_BUILTIN, LOW);
    delay(500);
  }
  if (digitalRead(SW17) == LOW) {
    digitalWrite(LED_BUILTIN, HIGH);
    Serial.println("SW17");
    digitalWrite(LED_BUILTIN, LOW);
    delay(500);
  }
  if (digitalRead(SW18) == LOW) {
    digitalWrite(LED_BUILTIN, HIGH);
    Serial.println("SW18");
    digitalWrite(LED_BUILTIN, LOW);
    delay(500);
  }
  if (digitalRead(SW19) == LOW) {
    digitalWrite(LED_BUILTIN, HIGH);
    Serial.println("SW19");
    digitalWrite(LED_BUILTIN, LOW);
    delay(500);
  }
  if (digitalRead(SW20) == LOW) {
    digitalWrite(LED_BUILTIN, HIGH);
    Serial.println("SW20");
    digitalWrite(LED_BUILTIN, LOW);
    delay(500);
  }
  if (digitalRead(SW21) == LOW) {
    digitalWrite(LED_BUILTIN, HIGH);
    Serial.println("SW21");
    digitalWrite(LED_BUILTIN, LOW);
    delay(500);
  }
  if (digitalRead(SW22) == LOW) {
    digitalWrite(LED_BUILTIN, HIGH);
    Serial.println("SW22");
    digitalWrite(LED_BUILTIN, LOW);
    delay(500);
  }
  if (digitalRead(SW23) == LOW) {
    digitalWrite(LED_BUILTIN, HIGH);
    Serial.println("SW23");
    digitalWrite(LED_BUILTIN, LOW);
    delay(500);
  }
  if (digitalRead(SW24) == LOW) {
    digitalWrite(LED_BUILTIN, HIGH);
    Serial.println("SW24");
    digitalWrite(LED_BUILTIN, LOW);
    delay(500);
  }
  if (digitalRead(SW25) == LOW) {
    digitalWrite(LED_BUILTIN, HIGH);
    Serial.println("SW25");
    digitalWrite(LED_BUILTIN, LOW);
    delay(500);
  }
  if (digitalRead(SW26) == LOW) {
    digitalWrite(LED_BUILTIN, HIGH);
    Serial.println("SW26");
    digitalWrite(LED_BUILTIN, LOW);
    delay(500);
  }
  if (digitalRead(SW27) == LOW) {
    digitalWrite(LED_BUILTIN, HIGH);
    Serial.println("SW27");
    digitalWrite(LED_BUILTIN, LOW);
    delay(500);
  }
  if (digitalRead(SW28) == LOW) {
    digitalWrite(LED_BUILTIN, HIGH);
    Serial.println("SW28");
    digitalWrite(LED_BUILTIN, LOW);
    delay(500);
  }
  if (digitalRead(SW29) == LOW) {
    digitalWrite(LED_BUILTIN, HIGH);
    Serial.println("SW29");
    digitalWrite(LED_BUILTIN, LOW);
    delay(500);
  }
  if (digitalRead(SW30) == LOW) {
    digitalWrite(LED_BUILTIN, HIGH);
    Serial.println("SW30");
    digitalWrite(LED_BUILTIN, LOW);
    delay(500);
  }
  if (digitalRead(SW31) == LOW) {
    digitalWrite(LED_BUILTIN, HIGH);
    Serial.println("SW31");
    digitalWrite(LED_BUILTIN, LOW);
    delay(500);
  }
  if (digitalRead(SW32) == LOW) {
    digitalWrite(LED_BUILTIN, HIGH);
    Serial.println("SW32");
    digitalWrite(LED_BUILTIN, LOW);
    delay(500);
  }
  if (digitalRead(SW33) == LOW) {
    digitalWrite(LED_BUILTIN, HIGH);
    Serial.println("SW33");
    digitalWrite(LED_BUILTIN, LOW);
    delay(500);
  }
  if (digitalRead(SW34) == LOW) {
    digitalWrite(LED_BUILTIN, HIGH);
    Serial.println("SW34");
    digitalWrite(LED_BUILTIN, LOW);
    delay(500);
  }
  if (digitalRead(SW35) == LOW) {
    digitalWrite(LED_BUILTIN, HIGH);
    Serial.println("SW35");
    digitalWrite(LED_BUILTIN, LOW);
    delay(500);
  }
  if (digitalRead(SW36) == LOW) {
    digitalWrite(LED_BUILTIN, HIGH);
    Serial.println("SW36");
    digitalWrite(LED_BUILTIN, LOW);
    delay(500);
  }
  if (digitalRead(SW37) == LOW) {
    digitalWrite(LED_BUILTIN, HIGH);
    Serial.println("SW37");
    digitalWrite(LED_BUILTIN, LOW);
    delay(500);
  }
  if (digitalRead(SW38) == LOW) {
    digitalWrite(LED_BUILTIN, HIGH);
    Serial.println("SW38");
    digitalWrite(LED_BUILTIN, LOW);
    delay(500);
  }
  if (digitalRead(SW39) == LOW) {
    digitalWrite(LED_BUILTIN, HIGH);
    Serial.println("SW39");
    digitalWrite(LED_BUILTIN, LOW);
    delay(500);
  }
  if (digitalRead(SW40) == LOW) {
    digitalWrite(LED_BUILTIN, HIGH);
    Serial.println("SW40");
    digitalWrite(LED_BUILTIN, LOW);
    delay(500);
  }
  if (digitalRead(SW41) == LOW) {
    digitalWrite(LED_BUILTIN, HIGH);
    Serial.println("SW41");
    digitalWrite(LED_BUILTIN, LOW);
    delay(500);
  }
  if (digitalRead(SW42) == LOW) {
    digitalWrite(LED_BUILTIN, HIGH);
    Serial.println("SW42");
    digitalWrite(LED_BUILTIN, LOW);
    delay(500);
  }
  if (digitalRead(SW43) == LOW) {
    digitalWrite(LED_BUILTIN, HIGH);
    Serial.println("SW43");
    digitalWrite(LED_BUILTIN, LOW);
    delay(500);
  }
  if (digitalRead(SW44) == LOW) {
    digitalWrite(LED_BUILTIN, HIGH);
    Serial.println("SW44");
    digitalWrite(LED_BUILTIN, LOW);
    delay(500);
  }
  if (digitalRead(SW45) == LOW) {
    digitalWrite(LED_BUILTIN, HIGH);
    Serial.println("SW45");
    digitalWrite(LED_BUILTIN, LOW);
    delay(500);
  }
  if (digitalRead(SW46) == LOW) {
    digitalWrite(LED_BUILTIN, HIGH);
    Serial.println("SW46");
    digitalWrite(LED_BUILTIN, LOW);
    delay(500);
  }
  if (digitalRead(SW47) == LOW) {
    digitalWrite(LED_BUILTIN, HIGH);
    Serial.println("SW47");
    digitalWrite(LED_BUILTIN, LOW);
    delay(500);
  }
  if (digitalRead(SW48) == LOW) {
    digitalWrite(LED_BUILTIN, HIGH);
    Serial.println("SW48");
    digitalWrite(LED_BUILTIN, LOW);
    delay(500);
  }
  if (digitalRead(SW49) == LOW) {
    digitalWrite(LED_BUILTIN, HIGH);
    Serial.println("SW49");
    digitalWrite(LED_BUILTIN, LOW);
    delay(500);
  }
  if (digitalRead(SW50) == LOW) {
    digitalWrite(LED_BUILTIN, HIGH);
    Serial.println("SW50");
    digitalWrite(LED_BUILTIN, LOW);
    delay(500);
  }
  if (digitalRead(SW51) == LOW) {
    digitalWrite(LED_BUILTIN, HIGH);
    Serial.println("SW51");
    digitalWrite(LED_BUILTIN, LOW);
    delay(500);
  }
  if (digitalRead(SW52) == LOW) {
    digitalWrite(LED_BUILTIN, HIGH);
    Serial.println("SW52");
    digitalWrite(LED_BUILTIN, LOW);
    delay(500);
  }
  if (digitalRead(SW53) == LOW) {
    digitalWrite(LED_BUILTIN, HIGH);
    Serial.println("SW53");
    digitalWrite(LED_BUILTIN, LOW);
    delay(500);
  }
  if (digitalRead(SW54) == LOW) {
    digitalWrite(LED_BUILTIN, HIGH);
    Serial.println("SW54");
    digitalWrite(LED_BUILTIN, LOW);
    delay(500);
  }
  if (digitalRead(SW55) == LOW) {
    digitalWrite(LED_BUILTIN, HIGH);
    Serial.println("SW55");
    digitalWrite(LED_BUILTIN, LOW);
    delay(500);
  }
  if (digitalRead(SW56) == LOW) {
    digitalWrite(LED_BUILTIN, HIGH);
    Serial.println("SW56");
    digitalWrite(LED_BUILTIN, LOW);
    delay(500);
  }
  if (digitalRead(SW57) == LOW) {
    digitalWrite(LED_BUILTIN, HIGH);
    Serial.println("SW57");
    digitalWrite(LED_BUILTIN, LOW);
    delay(500);
  }
  if (digitalRead(SW58) == LOW) {
    digitalWrite(LED_BUILTIN, HIGH);
    Serial.println("SW58");
    digitalWrite(LED_BUILTIN, LOW);
    delay(500);
  }
  if (digitalRead(SW59) == LOW) {
    digitalWrite(LED_BUILTIN, HIGH);
    Serial.println("SW59");
    digitalWrite(LED_BUILTIN, LOW);
    delay(500);
  }
  if (digitalRead(SW60) == LOW) {
    digitalWrite(LED_BUILTIN, HIGH);
    Serial.println("SW60");
    digitalWrite(LED_BUILTIN, LOW);
    delay(500);
  }
  if (digitalRead(SW61) == LOW) {
    digitalWrite(LED_BUILTIN, HIGH);
    Serial.println("SW61");
    digitalWrite(LED_BUILTIN, LOW);
    delay(500);
  }
  if (digitalRead(SW62) == LOW) {
    digitalWrite(LED_BUILTIN, HIGH);
    Serial.println("SW62");
    digitalWrite(LED_BUILTIN, LOW);
    delay(500);
  }
  if (digitalRead(SW63) == LOW) {
    digitalWrite(LED_BUILTIN, HIGH);
    Serial.println("SW63");
    digitalWrite(LED_BUILTIN, LOW);
    delay(500);
  }
  if (digitalRead(SW64) == LOW) {
    digitalWrite(LED_BUILTIN, HIGH);
    Serial.println("SW64");
    digitalWrite(LED_BUILTIN, LOW);
    delay(500);
  }
  if (digitalRead(SW65) == LOW) {
    digitalWrite(LED_BUILTIN, HIGH);
    Serial.println("SW65");
    digitalWrite(LED_BUILTIN, LOW);
    delay(500);
  }
  if (digitalRead(SW66) == LOW) {
    digitalWrite(LED_BUILTIN, HIGH);
    Serial.println("SW66");
    digitalWrite(LED_BUILTIN, LOW);
    delay(500);
  }
  if (digitalRead(SW67) == LOW) {
    digitalWrite(LED_BUILTIN, HIGH);
    Serial.println("SW67");
    digitalWrite(LED_BUILTIN, LOW);
    delay(500);
  }
  if (digitalRead(SW68) == LOW) {
    digitalWrite(LED_BUILTIN, HIGH);
    Serial.println("SW68");
    digitalWrite(LED_BUILTIN, LOW);
    delay(500);
  }
  if (digitalRead(SW69) == LOW) {
    digitalWrite(LED_BUILTIN, HIGH);
    Serial.println("SW69");
    digitalWrite(LED_BUILTIN, LOW);
    delay(500);
  }
  if (digitalRead(SW70) == LOW) {
    digitalWrite(LED_BUILTIN, HIGH);
    Serial.println("SW70");
    digitalWrite(LED_BUILTIN, LOW);
    delay(500);
  }
  if (digitalRead(SW71) == LOW) {
    digitalWrite(LED_BUILTIN, HIGH);
    Serial.println("SW71");
    digitalWrite(LED_BUILTIN, LOW);
    delay(500);
  }
  if (digitalRead(SW72) == LOW) {
    digitalWrite(LED_BUILTIN, HIGH);
    Serial.println("SW72");
    digitalWrite(LED_BUILTIN, LOW);
    delay(500);
  }
  if (digitalRead(SW73) == LOW) {
    digitalWrite(LED_BUILTIN, HIGH);
    Serial.println("SW73");
    digitalWrite(LED_BUILTIN, LOW);
    delay(500);
  }
  if (digitalRead(SW74) == LOW) {
    digitalWrite(LED_BUILTIN, HIGH);
    Serial.println("SW74");
    digitalWrite(LED_BUILTIN, LOW);
    delay(500);
  }
  if (digitalRead(SW75) == LOW) {
    digitalWrite(LED_BUILTIN, HIGH);
    Serial.println("SW75");
    digitalWrite(LED_BUILTIN, LOW);
    delay(500);
  }
  if (digitalRead(SW76) == LOW) {
    digitalWrite(LED_BUILTIN, HIGH);
    Serial.println("SW76");
    digitalWrite(LED_BUILTIN, LOW);
    delay(500);
  }
  if (digitalRead(SW77) == LOW) {
    digitalWrite(LED_BUILTIN, HIGH);
    Serial.println("SW77");
    digitalWrite(LED_BUILTIN, LOW);
    delay(500);
  }
  if (digitalRead(SW78) == LOW) {
    digitalWrite(LED_BUILTIN, HIGH);
    Serial.println("SW78");
    digitalWrite(LED_BUILTIN, LOW);
    delay(500);
  }
  if (digitalRead(SW79) == LOW) {
    digitalWrite(LED_BUILTIN, HIGH);
    Serial.println("SW79");
    digitalWrite(LED_BUILTIN, LOW);
    delay(500);
  }
  if (digitalRead(SW80) == LOW) {
    digitalWrite(LED_BUILTIN, HIGH);
    Serial.println("SW80");
    digitalWrite(LED_BUILTIN, LOW);
    delay(500);
  }
  if (digitalRead(SW81) == LOW) {
    digitalWrite(LED_BUILTIN, HIGH);
    Serial.println("SW81");
    digitalWrite(LED_BUILTIN, LOW);
    delay(500);
  }
  if (digitalRead(SW82) == LOW) {
    digitalWrite(LED_BUILTIN, HIGH);
    Serial.println("SW82");
    digitalWrite(LED_BUILTIN, LOW);
    delay(500);
  }
  if (digitalRead(SW83) == LOW) {
    digitalWrite(LED_BUILTIN, HIGH);
    Serial.println("SW83");
    digitalWrite(LED_BUILTIN, LOW);
    delay(500);
  }
  if (digitalRead(SW84) == LOW) {
    digitalWrite(LED_BUILTIN, HIGH);
    Serial.println("SW84");
    digitalWrite(LED_BUILTIN, LOW);
    delay(500);
  }
  if (digitalRead(SW85) == LOW) {
    digitalWrite(LED_BUILTIN, HIGH);
    Serial.println("SW85");
    digitalWrite(LED_BUILTIN, LOW);
    delay(500);
  }
  if (digitalRead(SW86) == LOW) {
    digitalWrite(LED_BUILTIN, HIGH);
    Serial.println("SW86");
    digitalWrite(LED_BUILTIN, LOW);
    delay(500);
  }
  if (digitalRead(SW87) == LOW) {
    digitalWrite(LED_BUILTIN, HIGH);
    Serial.println("SW87");
    digitalWrite(LED_BUILTIN, LOW);
    delay(500);
  }
  if (digitalRead(SW88) == LOW) {
    digitalWrite(LED_BUILTIN, HIGH);
    Serial.println("SW88");
    digitalWrite(LED_BUILTIN, LOW);
    delay(500);
  }
  if (digitalRead(SW89) == LOW) {
    digitalWrite(LED_BUILTIN, HIGH);
    Serial.println("SW89");
    digitalWrite(LED_BUILTIN, LOW);
    delay(500);
  }
  if (digitalRead(SW90) == LOW) {
    digitalWrite(LED_BUILTIN, HIGH);
    Serial.println("SW90");
    digitalWrite(LED_BUILTIN, LOW);
    delay(500);
  }
  if (digitalRead(SW91) == LOW) {
    digitalWrite(LED_BUILTIN, HIGH);
    Serial.println("SW91");
    digitalWrite(LED_BUILTIN, LOW);
    delay(500);
  }
  if (digitalRead(SW92) == LOW) {
    digitalWrite(LED_BUILTIN, HIGH);
    Serial.println("SW92");
    digitalWrite(LED_BUILTIN, LOW);
    delay(500);
  }
  if (digitalRead(SW93) == LOW) {
    digitalWrite(LED_BUILTIN, HIGH);
    Serial.println("SW93");
    digitalWrite(LED_BUILTIN, LOW);
    delay(500);
  }
  if (digitalRead(SW94) == LOW) {
    digitalWrite(LED_BUILTIN, HIGH);
    Serial.println("SW94");
    digitalWrite(LED_BUILTIN, LOW);
    delay(500);
  }
  if (digitalRead(SW95) == LOW) {
    digitalWrite(LED_BUILTIN, HIGH);
    Serial.println("SW95");
    digitalWrite(LED_BUILTIN, LOW);
    delay(500);
  }
  if (digitalRead(SW96) == LOW) {
    digitalWrite(LED_BUILTIN, HIGH);
    Serial.println("SW96");
    digitalWrite(LED_BUILTIN, LOW);
    delay(500);
  }
  if (digitalRead(SW97) == LOW) {
    digitalWrite(LED_BUILTIN, HIGH);
    Serial.println("SW97");
    digitalWrite(LED_BUILTIN, LOW);
    delay(500);
  }
  if (digitalRead(SW98) == LOW) {
    digitalWrite(LED_BUILTIN, HIGH);
    Serial.println("SW98");
    digitalWrite(LED_BUILTIN, LOW);
    delay(500);
  }
  if (digitalRead(SW99) == LOW) {
    digitalWrite(LED_BUILTIN, HIGH);
    Serial.println("SW99");
    digitalWrite(LED_BUILTIN, LOW);
    delay(500);
  }
  if (digitalRead(SW100) == LOW) {
    digitalWrite(LED_BUILTIN, HIGH);
    Serial.println("SW100");
    digitalWrite(LED_BUILTIN, LOW);
    delay(500);
  }
}
```



DESENVOLVIMENTO

REALIZOU-SE UMA PESQUISA DE CAMPO, ATRAVÉS DO GOOGLE FORMS, QUE IDENTIFICOU A FALTA DE CONHECIMENTO DOS ESTUDANTES SOBRE O CÉREBRO HUMANO. EM SEGUIDA, O ESTUDO FOCOU NA LEITURA E COLETA DE TEXTOS SOBRE O TEMA. BUSCAMOS FORMAS DE INTEGRAR O USO DA PROGRAMAÇÃO E DA PROTOTIPAGEM NUMA FERRAMENTA QUE POSSA SER ATRATIVA PARA OS ESTUDANTES E CUMPRA A FUNÇÃO DE FORNECER CONHECIMENTOS E DESPERTAR A CURIOSIDADE.



JUSTIFICATIVA

O SER HUMANO APRENDE ALGO NOVO TODOS OS DIAS, É POR MEIO DA INTERAÇÃO ENTRE AS PESSOAS, E COM O MEIO AMBIENTE, QUE SE DÁ A AQUISIÇÃO DE NOVOS CONHECIMENTOS E A PARTIR DISSO, PODEMOS MODIFICAR OS COMPORTAMENTOS QUE ADQUIRIMOS AO LONGO DE NOSSAS VIDAS. O CÉREBRO HUMANO POSSUI CINCO DIVISÕES ANATÔMICAS, OS LOBOS CEREBRAIS. EXISTEM CINCO LOBOS: FRONTAL, PARIETAL, OCCIPITAL, TEMPORAL E INSULAR. O LOBO FRONTAL É RESPONSÁVEL PELA TOMADA DE DECISÃO, JULGAMENTO, MEMORIA RECENTE, CRÍTICA, RACIOCÍNIO. O LOBO PARIETAL ESTÁ RELACIONADO ÀS SENSAÇÕES E A INTERPRETAÇÃO DAS SENSAÇÕES, PELO SENSO DE LOCALIZAÇÃO DO CORPO E DO MEIO AMBIENTE. O LOBO OCCIPITAL OCUPA-SE BASICAMENTE COM A VISÃO, ENQUANTO O TEMPORAL, COM A AUDIÇÃO. O LOBO INSULAR ESTÁ RELACIONADO A PROCESSOS EMOCIONAIS FORTEMENTE INFLUENCIADOS PELOS ORGAOS DOS SENTIDOS. ALÉM DESTA DIVISÃO ANATÔMICA, PODEMOS NOTAR QUE A SUPERFÍCIE DO CÉREBRO DO HOMEM APRESENTA DEPRESSÕES DENOMINADAS SULCOS, QUE DELIMITAM OS GIROS CEREBRAIS. TRAZER CONCEITOS DE FORMA INTERATIVA, FAZENDO COM QUE O ALUNO POSSA SE CONHECER MELHOR, COMPREENDER COMO SEU CORPO FUNCIONA E COMO AS SENSAÇÕES SÃO CONSTRUIDAS SERÁ DE GRANDE VALIA PARA O PROCESSO DE AUTOCONHECIMENTO E APRENDIZAGEM.

