

Kalkulačka

```
#include <Arduino.h>

char operand;
float a;
float b;
float vysledek;

void setup() {
  Serial.begin(9600);
  while (!Serial) { /* některé desky čekají na Serial */ }
  Serial.println("Kalkulacka: zadej A (ENTER), operand (ENTER), B (ENTER)");
}

void loop() {
  String line;

  // --- 1) CISLO A ---
  Serial.println("Vlozte cislo A:");
  do {
    line = Serial.readStringUntil('\n'); // vrátí i prázdný po timeoutu
    line.trim();
  } while (line.length() == 0); // opakuj dokud uživatel nestiskne ENTER s textem
  a = line.toFloat();
  Serial.print("A = "); Serial.println(a);

  // --- 2) OPERAND ---
  Serial.println("Vlozte operand (+ - * / ^):");
  do {
    line = Serial.readStringUntil('\n');
    line.trim();
  } while (line.length() == 0);
  operand = line.charAt(0); // vezmi první neprázdný znak
  Serial.print("Operand = "); Serial.println(operand);

  // --- 3) CISLO B ---
  Serial.println("Vlozte cislo B:");
  do {
    line = Serial.readStringUntil('\n');
    line.trim();
  } while (line.length() == 0);
  b = line.toFloat();
  Serial.print("B = "); Serial.println(b);

  // --- VYPOCET ---
  bool valid = true;
  switch (operand) {
    case '+': vysledek = a + b; break;
    case '-': vysledek = a - b; break;
    case '*': vysledek = a * b; break;
    case '/':
      if (b == 0) { Serial.println("Chyba: deleni nulou!"); valid = false; }
      else vysledek = a / b;
      break;
    case '^': vysledek = pow(a, b); break;
    default:
      Serial.println("Neplatny operand!");
      valid = false;
  }
}
```

```
// --- VYSLEDEK ---  
if (valid) {  
  Serial.println();  
  Serial.print(a); Serial.print(' ');  
  Serial.print(operand); Serial.print(' ');  
  Serial.print(b); Serial.print(" = ");  
  Serial.println(vysledek);  
  Serial.println();  
}  
  
// kratka pauza pred dalsim kolem  
delay(100);  
}
```