

Faktoriál

```
int a;

int i;

int premennaa;

void setup() {
    Serial.begin(9600);
}

void loop() {
    Serial.print("Vlozte cislo: ");
    while (Serial.available()!=0) {
    }
    premennaa=Serial.parseFloat();
    Serial.println(premennaa);
    Serial.println("");
    a=1;
    for(i=1;i<premennaa+1;i++) {
        a=a*i;
    }
    Serial.println("faktorial je : ");
    Serial.print( a );
    Serial.println("");
}
```

Knight reader

```
/* čísla výstupných pinov */
byte outputPins[] = {13, 12, 11, 10};

void setup()
{
    for(int i=0; i<5;i++)
    {
        pinMode(outputPins[i], OUTPUT);
        digitalWrite(outputPins[i], LOW);
    }
}

void loop()
{
    for(int i=0; i<4;i++)
    {
        digitalWrite(outputPins[i], HIGH);
        delay(75);
        digitalWrite(outputPins[i], LOW);
    }
    for(int i=4; i>0;i--)
    {
        digitalWrite(outputPins[i], HIGH);
        delay(75);
        digitalWrite(outputPins[i], LOW);
    }
}
```

Blikanie

```
const byte LED[] = {13,12,11,10};

#define ON HIGH //LOW

#define OFF LOW //HIGH

void setup() {

// initialize the digital pin as an output.

pinMode(LED[0], OUTPUT);

pinMode(LED[1], OUTPUT);

pinMode(LED[2], OUTPUT);

pinMode(LED[3], OUTPUT);

}

void loop() {

digitalWrite(LED[0], HIGH);

digitalWrite(LED[1], HIGH);

digitalWrite(LED[2], HIGH);

digitalWrite(LED[3], HIGH);

delay(1000);

digitalWrite(LED[0], LOW);

digitalWrite(LED[1], LOW);

digitalWrite(LED[2], LOW);

digitalWrite(LED[3], LOW);

delay(1000);

}
```

Min Max

```
int a;

int b;

int maximum;

int minimum;

void setup() {

Serial.begin(9600);

}

void loop() {

Serial.print("Vlozte cislo a: ");

while (Serial.available()==0) {}

a=Serial.parseFloat();

Serial.println(a);

Serial.print("Vlozte cislo b: ");

while (Serial.available()==0) {}

b=Serial.parseFloat();

Serial.println(b);

Serial.println("");

minimum = min(a,b);

maximum = max(a,b);

Serial.println("");

Serial.println("Minimum je: ");

Serial.println(minimum);

Serial.println("");

Serial.println("Maximum je: ");

Serial.println(maximum);

}
```

Pytagorova veta

```
int a;
int b;
int c;
int sucet;
void setup() {
  Serial.begin(9600);
}
void loop() {
  Serial.print("Vlozte rozmer a: ");
  while (Serial.available()==0) {
  }
  a=Serial.parseFloat();
  Serial.println(a);

  Serial.print("Vlozte rozmer b: ");
  while (Serial.available()==0) {
  }
  b=Serial.parseFloat();
  Serial.println(b);

  sucet = a*a + b*b;
  c = sqrt(sucet);
  Serial.println("Rozmer c: ");
  Serial.print( c );
  Serial.println("");
  Serial.println("");
  Serial.println("");
}
```

Kalkulačka

```
char operand;
float a;
float b;
float vysledok;
void setup() {
  Serial.begin(9600);
}
void loop() {
  Serial.print("Vlozte cislo a: ");
  while (Serial.available()==0) {
  }
  a=Serial.parseFloat();
  Serial.println(a);
  Serial.print("Vlozte operand: ");
  while (Serial.available()==0) {
  }
  operand=Serial.read();
  Serial.println(operand);
  Serial.print("Vlozte cislo b: ");
```

```
while (Serial.available()==0) {
}
b=Serial.parseFloat();
Serial.println(b);
Serial.println("");
switch (operand) {
  case '+':
    vysledok = a + b;
    Zobraz();
    break;
  case '-':
    vysledok = a - b;
    Zobraz();
    break;
  case '/':
    vysledok = a/b;
    Zobraz();
    break;
  case '*':
    vysledok = a * b;
    Zobraz();
    break;
  case '^':
    vysledok = pow(a,b);
    Zobraz();
    break;
  default:
    Serial.println("Zadany neplatny operand!");
}
Serial.println("");
Serial.println("");
}
void Zobraz() {
  Serial.print("Vysledok je: ");
  Serial.print(a);
  Serial.print(operand);
  Serial.print(b);
  Serial.print("=");
  Serial.print(vysledok);
}
```