

```

char KEYS[]= {
  '1','2','3',
  '4','5','6',
  '7','8','9',
  '*', '0', '#'
};

int keypress=0;
int keypressold=0;
int button=0;
int oldbutton=0;
boolean change=false;
int cptkeypad=0;

void setup() {
  // put your setup code here, to run once:
  pinMode(A0,INPUT);
  Serial.begin(9600);
  Serial.println('Appuyer sur une touche');
}

void loop() {
  // put your main code here, to run repeatedly:
  keypress=analogRead(A0);

  if (keypress==0)
  {
    // si j'appuye 2 fois de suite sur le meme bouton, il faut que je reinitialise
    // le boolean change pour detecter un nouvel appui
    // j' attends ton la reception de 5 valeurs 0 avant de changer l'etat.
    cptkeypad++;
    if (cptkeypad==500)
    {
      change=false;
      cptkeypad=0;
      button=0;
    }
  }
  else
  {
    if (oldbutton!=button)
    {
      Serial.print(cptkeypad);
      Serial.print(" : ");
      Serial.print(keypress);
      Serial.print(" - ");
      Serial.println(button);
    }
  }

  if (keypress <1030 && keypress >1000) {
    button=1;
  }
}

```

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}

if (keypress < 940 && keypress > 920) {
  button=2;
}

if (keypress < 860 && keypress > 840) {
  button=3;
}

if (keypress < 800 && keypress > 780) {
  button=4;
}

if (keypress < 740 && keypress > 720) {
  button=5;
}

if (keypress < 690 && keypress > 670) {
  button=6;
}

if (keypress < 650 && keypress > 630) {
  button=7;
}

if (keypress < 610 && keypress > 590) {
  button=8;
}

if (keypress < 580 && keypress > 560) {
  button=9;
}

if (keypress < 550 && keypress > 530) {
  button=10;
}

if (keypress <520 && keypress > 500 ) {
  button=11;
}

if (keypress < 495 && keypress > 480) {
  button=12;
}

if (button!=oldbutton)
{
  Serial.print (button);
  Serial.println (" is pressed");
  change=true;
}
```

```
oldbutton=button;  
} // end loop
```