



MAR LAB 2

NAME: **ARYAN SHINDE**

DIV: **Q**

ROLL NUMBER: **63**

PRN NUMBER:

12010823

1. PRINT THE MESSAGE ON THE SERIAL MONITOR

CODE:

```
Use File->Load Prog to load a different program
NAME: ARYAN SHINDE
ROLL NO. 63
PNR: 12010823
*/

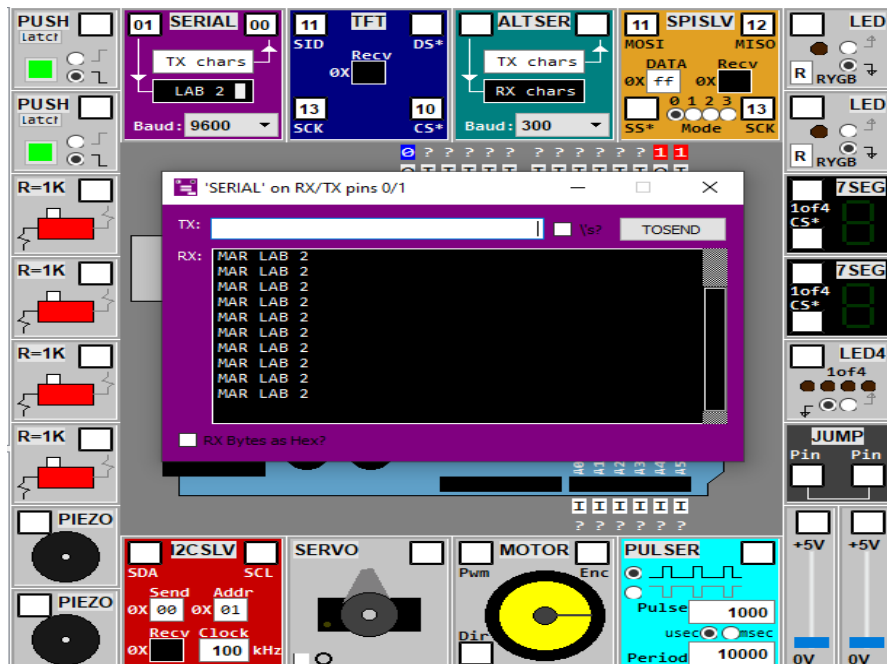
int count;

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

void loop()
{
  Serial.println("MAR LAB 2");
  delay(1000);
}

//the "int main()" below is IMPLICIT in Arduino
//but is shown here EXPLICITLY by UnoArduSim
int main()
{
  setup();
}
```

OUTPUT:



2. DIFFERENCE BETWEEN PRINT AND PRINTLN

CODE:

```
/* This is a default program--
Use File->Load Prog to load a different program
NAME: ARYAN SHINDE
ROLL NO. 63
PNR: 12010823
*/

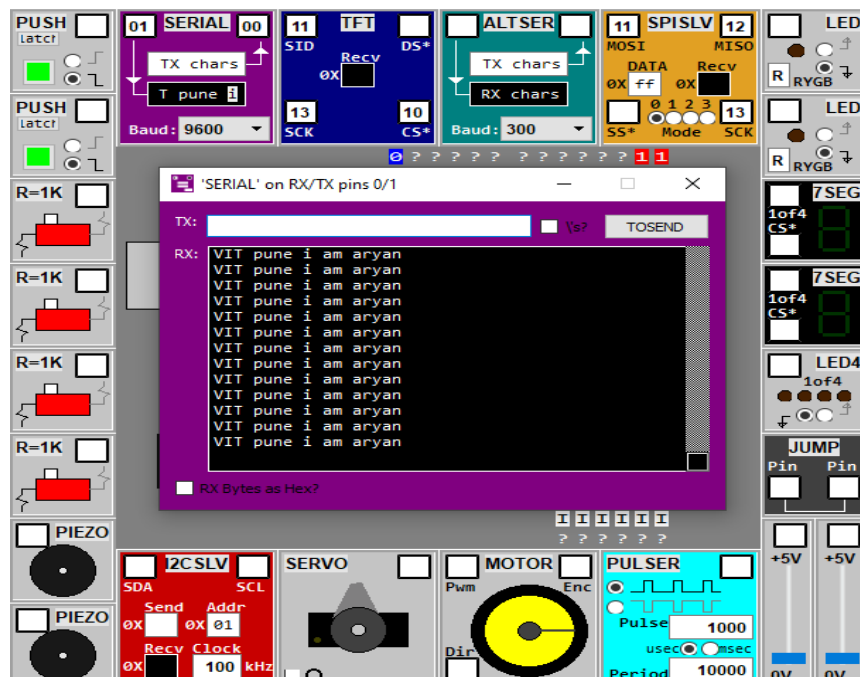
int count;

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

void loop()
{
  Serial.print("VIT pune ");
  Serial.println("i am aryan");
  delay(100);
}

//the "int main()" below is IMPLICIT in Arduino
//but is shown here EXPLICITLY by UnoArduSim
```

OUTPUT:



3. READ THE ADC VALUE:

CODE:

```
/* This is a default program--
   Use File->Load Prog to load a different program
   NAME: ARYAN SHINDE
   ROLL NO. 63
   PNR: 12010823
*/

int adc;

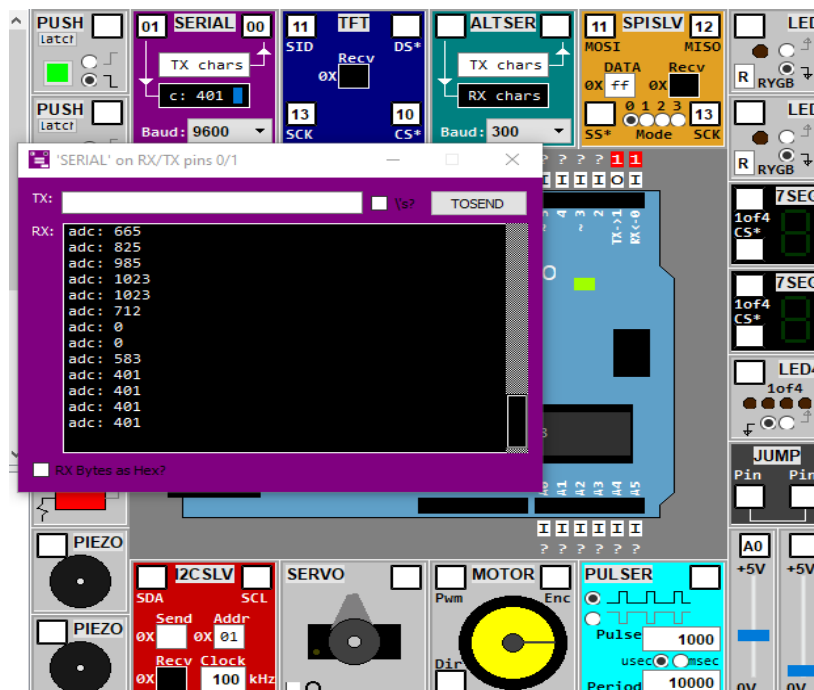
void setup()
{
  Serial.begin(9600);
}

void loop()
{
  adc=analogRead(A0);
  Serial.print("adc: ");
  Serial.println(adc);
  delay(1000);
}

//the "int main()" below is IMPLICIT in Arduino

adc= 0
```

OUTPUT:



4. READ THE ANALOG VOLTAGE AND VALUE

CODE:

```
/* This is a default program--
   Use File->Load Prog to load a different program
   NAME: ARYAN SHINDE
   ROLL NO. 63
   PNR: 12010823
*/

float adc;

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

void loop()
{
  adc=analogRead(A0);
  Serial.print("the adc value is: ");
  Serial.println(adc);
  Serial.print("the voltage value is: ");
  Serial.println((adc)*5.0/1024);
  Serial.print("\n");

  delay(1000);
}

//the "int main()" below is IMPLICIT in Arduino
//but is shown here EXPLICITLY by UnoArduSim
int main()
```

OUTPUT:



5. DISPLAY THE DATA ON 7 SEGMENT DISPLAY

CODE:

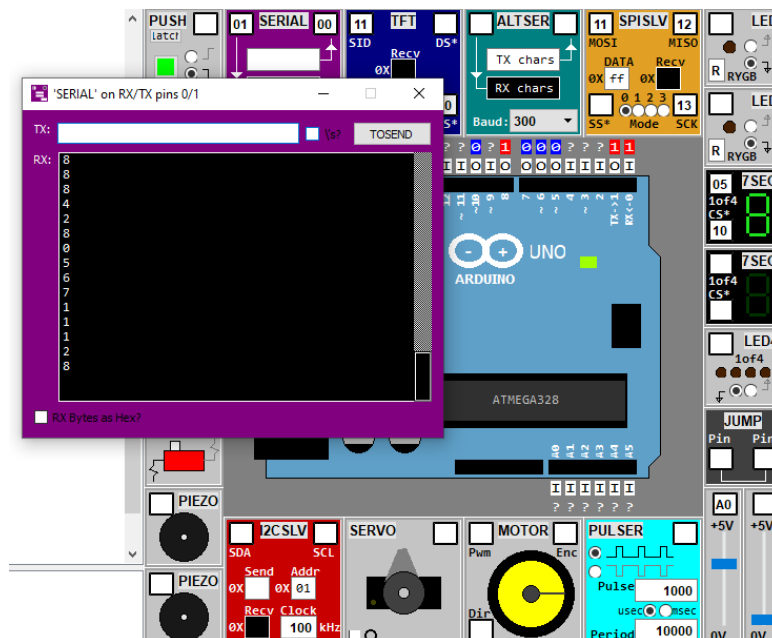
```
/* This is a default program--
Use File->Load Prog to load a different program
NAME: ARYAN SHINDE
ROLL NO. 63
PNR: 12010823
*/

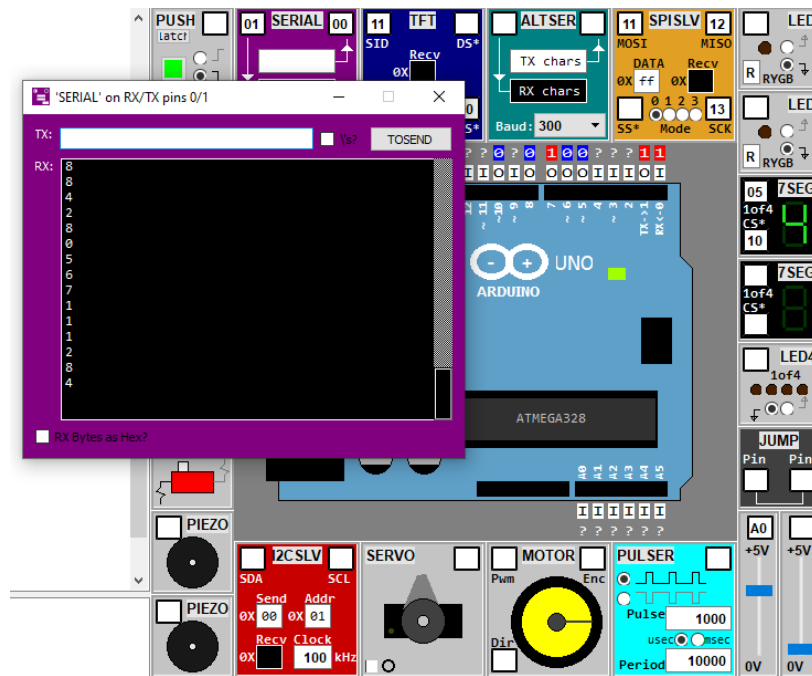
float adc;

void setup()
{
  Serial.begin(9600);
  pinMode(05, OUTPUT);
  pinMode(06, OUTPUT);
  pinMode(07, OUTPUT);
  pinMode(08, OUTPUT);
  pinMode(10, OUTPUT);
}

void loop()
{
  if(Serial.available()>0)
  {
    char dat=Serial.read();
    Serial.println(dat);
    dat=dat&0X0f;
    digitalWrite(05, dat&1);
    digitalWrite(06, dat&2);
    digitalWrite(07, dat&4);
    digitalWrite(08, dat&8);
  }
}
```

OUTPUT:







THANK YOU