

### Experiment-1.4

**Student Name: Jatin**

**Branch: CSE**

**Semester: 6<sup>th</sup>**

**Subject Name: IoT Lab**

**UID: 20BCS5951**

**Section/Group: 20BCS\_NT 605 B**

**Date of Performance: 02/03/23**

**Subject Code: 20CSP-376**

#### Aim:

Program to interface the Arduino/Raspberry Pi with LED and blinking application.

#### Objective:

1. Learn about interfacing.
2. Learn about IoT programming.

#### Apparatus/Simulator used:

1. Arduino
2. Sensors
3. USB cable
4. LEDs
5. Arduino IDE

#### Code:

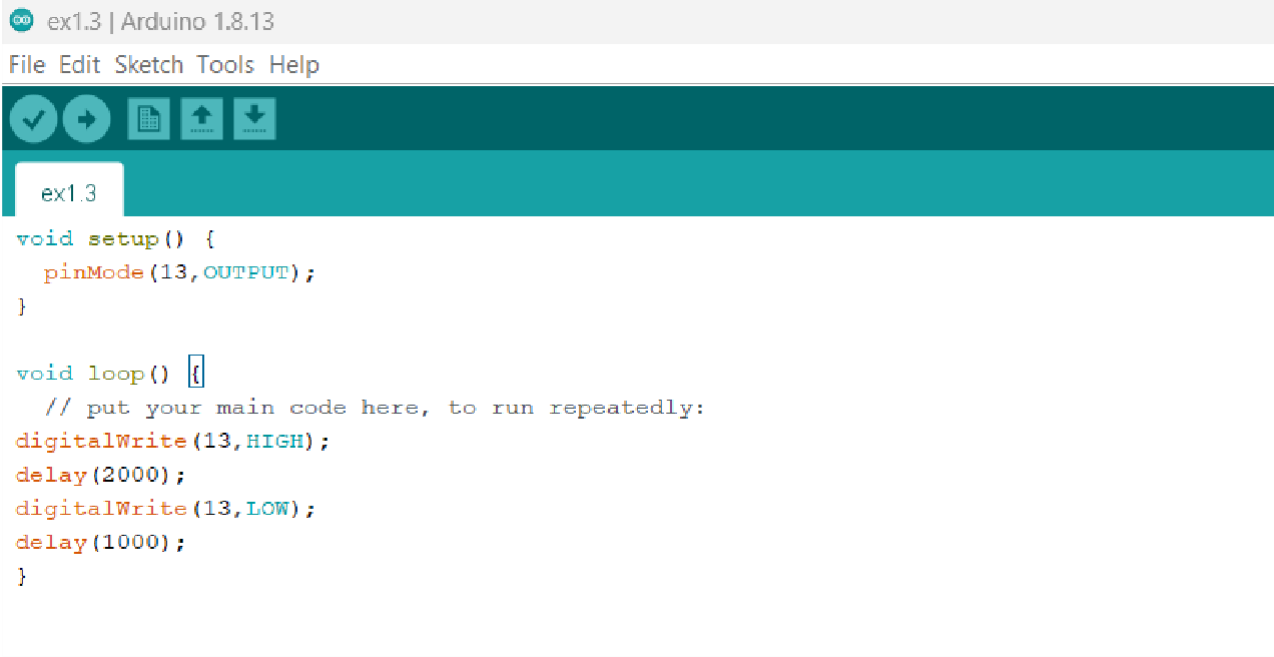
```
void setup() {  
  pinMode(13,OUTPUT);  
}
```

your main code here, to run repeatedly:

```
digitalWrite(13,HIGH); delay(2000);  
digitalWrite(13,LOW); delay(1000);  
}
```

```
void loop() {  
  //  
  put
```

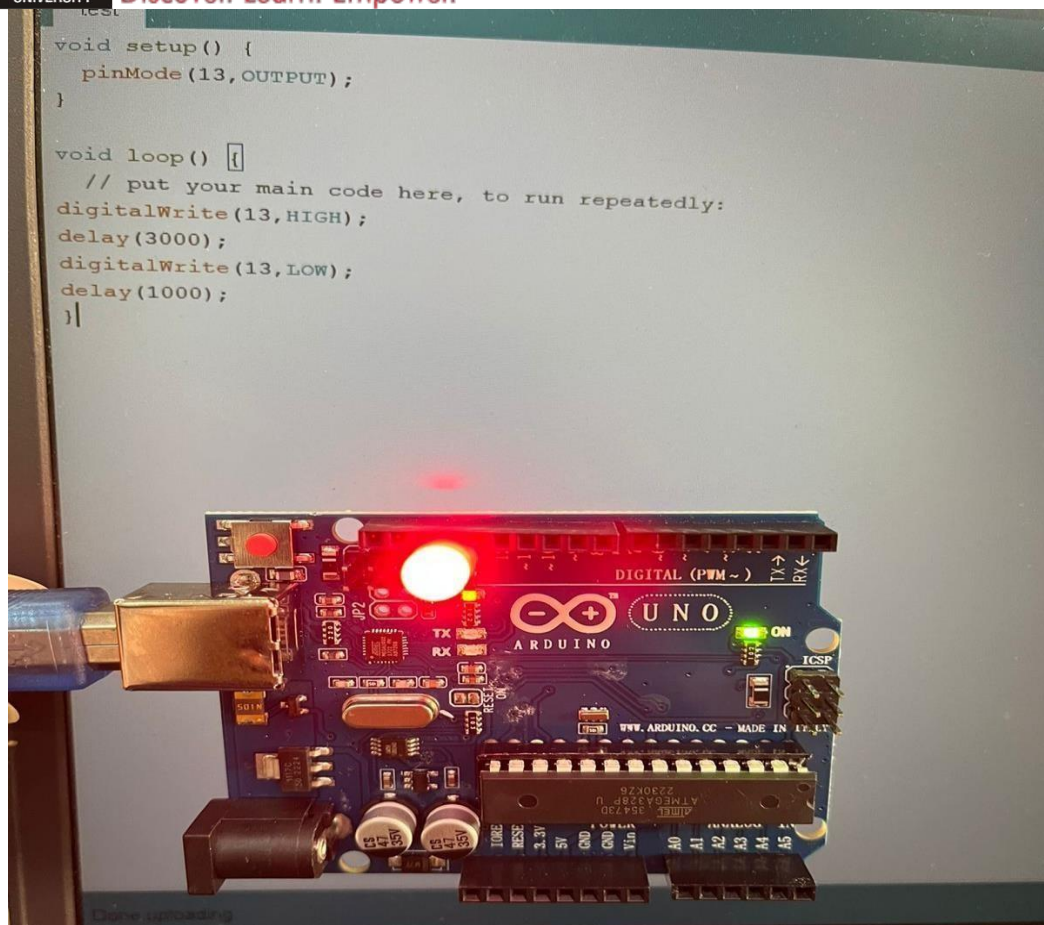
## Output-



The screenshot shows the Arduino IDE interface. At the top, it says 'ex1.3 | Arduino 1.8.13'. Below that is a menu bar with 'File', 'Edit', 'Sketch', 'Tools', and 'Help'. The toolbar contains icons for a checkmark, a right arrow, a grid, and up/down arrows. The sketch editor shows the following code:

```
ex1.3  
  
void setup() {  
  pinMode(13, OUTPUT);  
}  
  
void loop() {  
  // put your main code here, to run repeatedly:  
  digitalWrite(13, HIGH);  
  delay(2000);  
  digitalWrite(13, LOW);  
  delay(1000);  
}
```





## Learning outcomes(What I have learnt):

We learn about Arduino UNO.

We learn about Harward working.

## Evaluation Grid :

S.no	Parameters	Marks Obtained	Maximum Marks
1.	Student Performance (Conduct of experiment)objectives/O utcomes.		12
2.	Viva Voce		10



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3.	Submission of Worksheet(Record)		8
	Total		30