

OBSERVATION:

- **Blinking of leds in a pattern and in chasing form.**
- **Relation between software and hardware.**

Programming:

```
void setup()
```

```
{
```

```
  pinMode(13, OUTPUT);
```

```
  pinMode(12, OUTPUT);
```

```
  pinMode(11, OUTPUT);
```

```
  pinMode(10, OUTPUT);
```

```
}
```

```
void loop()
```

```
{
```

```
  digitalWrite(13, HIGH);
```

```
  digitalWrite(12, LOW);
```

```
  digitalWrite(11, LOW);
```

```
  digitalWrite(10, LOW);
```

```
  delay(1000);
```

```
  digitalWrite(13, LOW);
```

```
  digitalWrite(12, HIGH);
```

```
  digitalWrite(11, LOW);
```

```
  digitalWrite(10, LOW);
```

```
  delay(1000);
```

digitalWrite(13, LOW);

digitalWrite(12, LOW);

digitalWrite(11, HIGH);

digitalWrite(10,LOW);

delay(1000);

digitalWrite(13, LOW);

digitalWrite(12, LOW);

digitalWrite(11, LOW);

digitalWrite(10,HIGH);

delay(1000);

}

Problems & Troubleshooting:

- **To select the right port and type of arduino**
- **To check the loose connections**
- **To check the connections according to the codes**
- **To check the continuity of the circuit**
- **To check the flow of current in the circuit**

Precautions:

- **Handle tools carefully**
- **Wear gloves**
- **Do not connect arduino till the circuit is complete**

Outcomes:

- **LEDs glows in a chasing pattern**
- **It can be used as for decorating purpose**