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Experiment No. : 02

Statement : Make experiment 1 work with two switches. One switch press would result running of LEDs in one direction, while the second switch press would result running of LEDs in opposite direction.

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### **Code Snippet**

```
int led[]={2,3,4,5,6};
int loopLed=5;
int switchPin1=8;
int switchPin2=9;

void setup(){
    pinMode(switchPin1,INPUT_PULLUP);
    pinMode(switchPin2,INPUT_PULLUP);

    for(int i=0;i<loopLed;i++){
        pinMode(led[i],OUTPUT);
    }
}

void loop(){
    if(digitalRead(switchPin1)==LOW){
        runLeds(100);
    }

    if(digitalRead(switchPin2)==LOW){
        runLedsReverse(100);
    }
}

void runLeds(int n){

    for(int i=0;i<loopLed;i++){
        digitalWrite(led[i],HIGH);
        delay(n);
        digitalWrite(led[i],LOW);
    }
}

void runLedsReverse(int n){
```

```

for(int i=loopLed-1;i>=0;i--){
  digitalWrite(led[i],HIGH);
  delay(n);
  digitalWrite(led[i],LOW);
}
}

```



