

## **Exp-4 Simulation of Parallel port programming (LED Interfacing) using mbed**

**Aim:** Write an cpp program for led interfacing in mbed simulator

**Software used:** mbed Compiler and simulator

### **Program**

```
#include "mbed.h"

DigitalOut redled(p5);
DigitalOut greenled(p6);
DigitalIn switchinput(p7);

int main()
{
    while(1) {
        if (switchinput==1) { //test value of switchinput
//execute following block if switchinput is 1
            greenled = 0; //green led is off
            redled = 1; // flash red led
            wait(0.2);
            redled = 0;
            wait(0.2);
        } //end of if
        else { //here if switchinput is 0
            redled = 0; //red led is off
            greenled = 1; // flash green led
            wait(0.2);
            greenled = 0;
            wait(0.2);
        } //end of else
    } //end of while(1)
} //end of main
```

**Interfacing diagram:**

**Results:**