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Nirbhay Sharma (B19CSE114)

DSL - Lab -9

Task-1

```
#include "stm32f4xx.h"
void delay(int dd){
    for (int i = 0; i < dd; i++) {
         for (int j = 0; j < 300000; j++){
         }
    }
}
main(void)
{
    RCC->AHB1ENR = 0X40; // ENABLING CLOCK FOR PORT G
    GPIOG \rightarrow MODER = 0X14000000;
    GPIOG->ODR = (1<<13) | (1<<14);
    while (1) {
        GPIOG->ODR = OXO;
        delay(100);
        GPIOG->ODR = (1<<13) | (1<<14);
        delay(100);
    }
}
```

logic

- 1. first set GPIOG clock using 0x40
- 2. then set PG13, PG14 on output mode (01) using 0x14000000
- 3. then set odr to ((1 << 13)|(1 << 14)) to enable 13th and 14th pin or glow them.
- 4. then run a while loop and simply set the values accordingly in order to toggle led's with some delay

Task-2

part-a

Hello my name is nirbhay sharma and I study in IIT Jodhpur

part-b

part-c

Task-3

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Task-4

Task-5

Task-6

```
void setup() {
    // put your setup code here, to run once:

    Serial.begin(9600);
}

void loop() {
    // put your main code here, to run repeatedly:
    int aread1 = analogRead(A1);
    delay(1);
    int aread2 = analogRead(A2);

if (aread2 > aread1){
        Serial.println(aread2);
    } else {
        Serial.println("printing Nothing");
    }
}
```