

ASSIGNMENT NO.3

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REGD NO.- FET/BAML/2022-26/031

SEM:- 5TH

Basic Structure of an Arduino Program

- ☐ **Global Declarations:** Define variables, constants, and include libraries.

```
int ledPin = 13;
```

- ☐ **setup() Function:** Runs once; used for initialization like setting pin modes and starting communication.

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

- ☐ **loop() Function:** Runs continuously; contains the main logic.

```
void loop() {  
    digitalWrite(ledPin, HIGH);  
    delay(1000);  
    digitalWrite(ledPin, LOW);  
    delay(1000);  
}
```

This structure ensures initialization in setup() and continuous execution in loop().