Object Avoiding Robot

The primary purpose of this bot is to traverse forward autonomously and change directions if it encounters any significant obstacle in its path. The bot will avoid any obstacle big enough to be detected by the ultrasonic sensors mounted on the front

an autonomous robot which intelligently detects obstacle path and navigate conveniently according to the actions we set for it

Pre-requisites: Arduino port USB driver

Operating systems- Windows, MAC ,Ubuntu ,LINUX ,debian

System Requirements 256MB RAM and 600MB Disk Space

CPU: Intel Pentium 4 and+

Installation
```

 install Arduino software(IDE) 1.8.19

```



```

before uploading code install required libraries

AFMotor Library https://learn.adafruit.com/adafruit-motor-shield/library-install

NewPing Library https://github.com/livetronic/Arduino-NewPing

Servo Library https://github.com/arduino-libraries/Servo.git

```
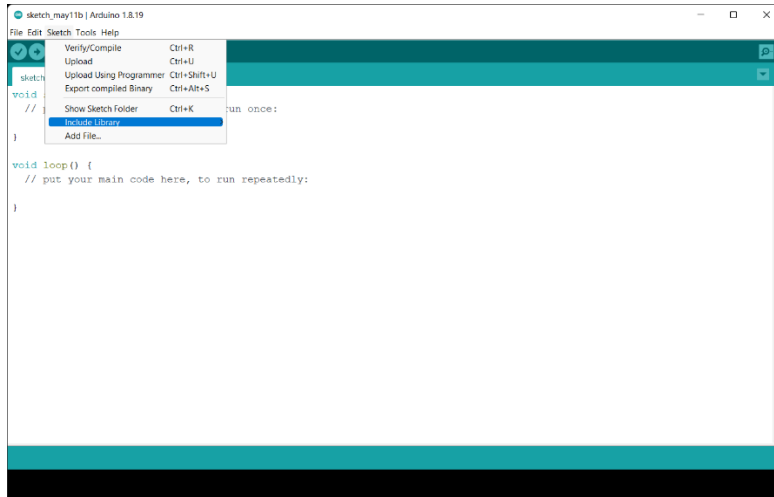
```

To Install the libraries go to sketch >> Include Library >> Add .ZIP File >> Select the Downloaded ZIP files
From the Above links

```



```

Upload coad in Arduino UNO via USB connection

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