

CHAPTER: 5 MOTOR INTERFACING

DC – SENSOR

PRACTICAL: 5A

AIM: To interface DC – MOTOR using Arduino.

ARDUINO CODE:

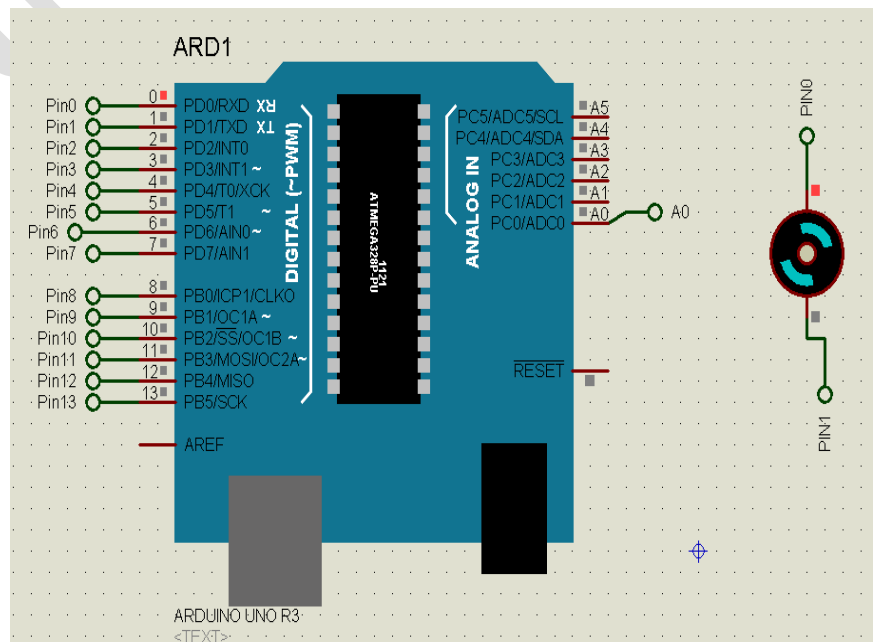
```
/******
```

```
* Author: Shreejicharan
* Title: To interface DC – MOTOR using Arduino.
* Date: 27/05/2017
* Time: 6:00
* Email: shreejicharanelectronics@gmail.com
*****/
```

```
#define MP 0
#define MN 1
void setup(){
  pinMode(MP, OUTPUT);
  pinMode(MN, OUTPUT);
}
```

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

SIMULATION:



CHAPTER: 5 MOTOR INTERFACING

SERVO – MOTOR

PRACTICAL: 5B

AIM: To interface SERVO - MOTOR using Arduino.

ARDUINO CODE:

```
/******
```

```
* Author: Shreejicharan
```

```
* Title: To interface SERVO - MOTOR using Arduino.
```

```
* Date: 27/05/2017
```

```
* Time: 6:00
```

```
* Email: shreejicharanelectronics@gmail.com
```

```
*****/
```

```
#include <Servo.h>
```

```
Servo servo1;
```

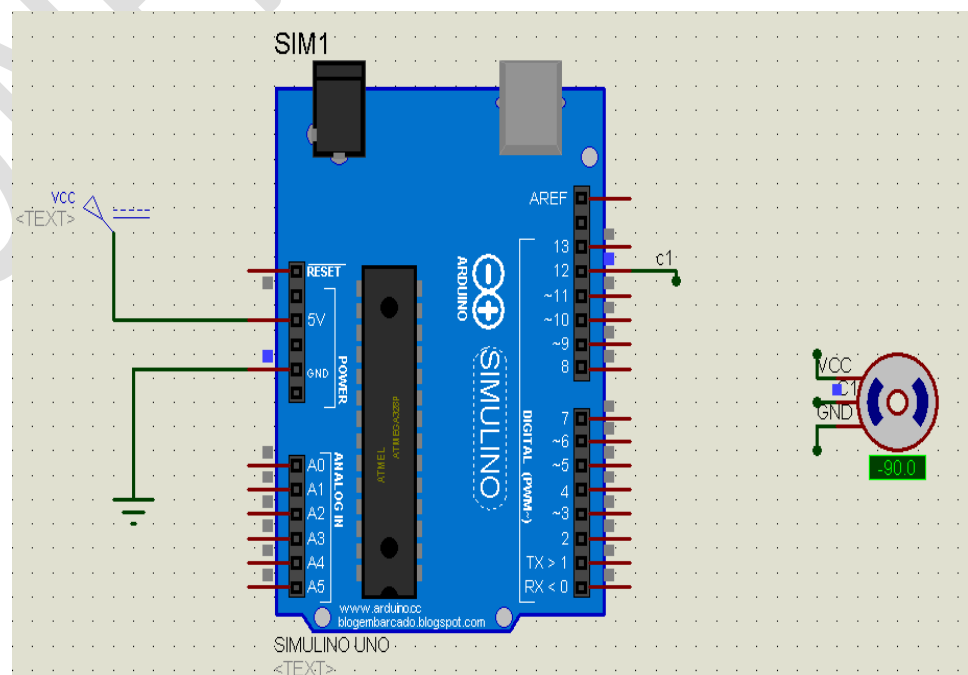
```
void setup()
```

```
{  
  servo1.attach(12);  
}
```

```
void loop()
```

```
{  
  servo1.write(0);  
  delay(5000);  
  servo1.write(180);  
  delay(5000);  
}
```

SIMULATION:



CHAPTER: 5 MOTOR INTERFACING

STEPPER – MOTOR

PRACTICAL: 5C

AIM: To interface STEPPER - MOTOR using Arduino.

ARDUINO CODE:

```
/******
```

```
* Author: Shreejicharan
```

```
* Title: To interface STEPPER - MOTOR using Arduino.
```

```
* Date: 27/05/2017
```

```
* Time: 6:00
```

```
* Email: shreejicharanelectronics@gmail.com
```

```
*****/
```

```
#include <Stepper.h>
```

```
const int stepsPerRevolution = 20;
```

```
// initialize the stepper library on pins 8 through 11:
```

```
Stepper myStepper(stepsPerRevolution, 8,9,10,11);
```

```
void setup() {
```

```
  // set the speed at 40 rpm:
```

```
  myStepper.setSpeed(40);
```

```
}
```

```
void loop() {
```

```
  // step one revolution in one direction:
```

```
  myStepper.step(~stepsPerRevolution);
```

```
  delay(20);
```

```
}
```

SIMULATION:

