Industrial IoT Minor

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Experiment - 4

AIM: To interface Motor using relay with ESP32

OBJECTIVE: To write a code in Arduino IDE and interface motor using relay.

THEORY: An electric motor is an electrical machine that converts electrical energy into mechanical energy. Most electric motors operate through the interaction between the motor's magnetic field and electric current in a wire winding to generate force in the form of torque applied on the motor's shaft.

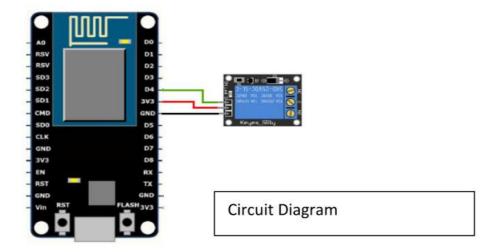
SIMULATION CODE:

```
int relayInput = 2;

void setup(){
  pinMode(relayInput, OUTPUT);
}

void loop(){
  digitalWrite(relayInput, HIGH);
  delay(3000);
  digitalWrite(relayInput, LOW);
  delay(4000);
}
```

SIMULATION RESULT:



```
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CONCLUSION: After performing this experiment we were able control motor using relay with NodeMCU.