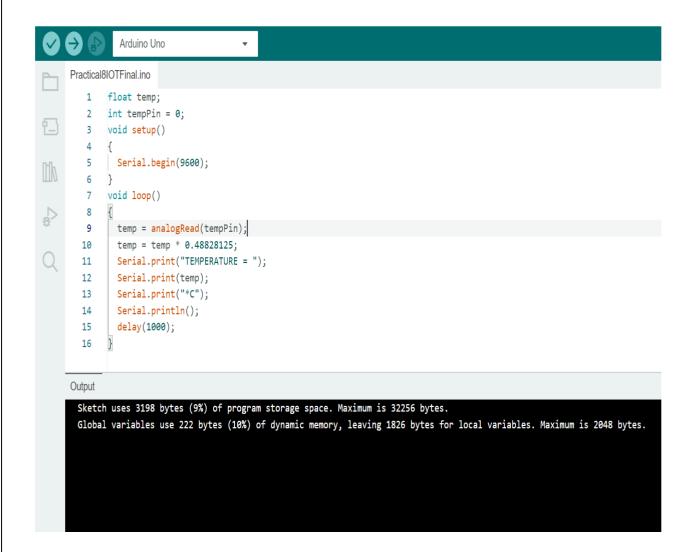
```
int x;
void setup()
  Serial.begin(9600);
  Serial.println("Enter A Number:-");
 while (Serial.available() == 0)
 }
 x = Serial.parseInt();
 Serial.println("Square of a Number is:-");
 Serial.println(x*x);
 void loop()
Practical6IOTFinal | Arduino IDE 2.1.1
File Edit Sketch Tools Help
               Arduino Uno
      Practical6IOTFinal.ino
             int x;
             void setup()
         3
               Serial.begin(9600);
         4
         5
                Serial.println("Enter A Number:-");
         6
         7
               while (Serial.available() == 0)
         8
               {
         9
               }
        10
        11
               x = Serial.parseInt();
              Serial.println("Square of a Number is:-");
        12
              Serial.println(x*x);
        13
        14
             void loop()
        15
        16
        17
        18
        19
      Output
        Sketch uses 2086 bytes (6%) of program storage space. Maximum is 32256 bytes.
        Global variables use 230 bytes (11%) of dynamic memory, leaving 1818 bytes for local variables. Maximum is 2048 bytes.
```

```
char val;
void setup()
 pinMode(13, OUTPUT);
  pinMode(12, OUTPUT);
  Serial.begin(9600);
void loop()
if(Serial.available() > 0)
   val = Serial.read();
   switch(val)
    case 'a':
      digitalWrite(13, HIGH);
      break;
    case 'b':
      digitalWrite(13, LOW);
      break;
               Arduino Uno
      Practical7IOTFinal.ino
            char val;
            void setup()
        3
            pinMode(13, OUTPUT);
              pinMode(12, OUTPUT);
              Serial.begin(9600);
            void loop()
        9 {
        10
            if(Serial.available() > 0)
        11
        12
             val = Serial.read();
        13
                switch(val)
        14
        15
                  case 'a':
        16
                   digitalWrite(13, HIGH);
        17
                   break;
        18
                  case 'b':
        19
                   digitalWrite(13, LOW);
        20
                   break;
       Sketch uses 1778 bytes (5%) of program storage space. Maximum is 32256 bytes.
       Global variables use 184 bytes (8%) of dynamic memory, leaving 1864 bytes for local variables. Maximum is 2048 bytes.
```

```
float temp;
int tempPin = 0;
void setup()
{
    Serial.begin(9600);
}
void loop()
{
    temp = analogRead(tempPin);
    temp = temp * 0.48828125;
    Serial.print("TEMPERATURE = ");
    Serial.print(temp);
    Serial.print("*C");
    Serial.println();
    delay(1000);
}
```



```
float temp;
float tempF;
float maxTemp = -1000.0;
float minTemp = 1000.0;
int tempPin = 0;
void setup()
Serial.begin(9600);
void loop()
 temp = analogRead(tempPin);
 temp = temp * 0.48828125;
 tempF = (temp * 9.0/5.0) + 32.0;
 if (tempF > maxTemp)
  maxTemp = tempF;
 if (tempF < minTemp)
  minTemp = tempF;
 Serial.print("TEMPERATURE = ");
 Serial.print(temp);
 Serial.print("*C / ");
 Serial.print(tempF);
 Serial.print("*F / Max: ");
 Serial.print(maxTemp);
 Serial.print("*F / Min: ");
 Serial.print(minTemp);
 Serial.println();
 delay(1000);
```

