

## Experiment NO 6

//Write a program that asks the user for a number and outputs the number squared that is entered.

CODE :-

```
void setup() {  
  // Start serial communication  
  Serial.begin(9600);  
  Serial.println("Enter a number to square:");  
}  
  
void loop() {  
  // Check if data is available  
  if (Serial.available() > 0) {  
    String input = Serial.readStringUntil('\n'); // Read input until newline  
    input.trim(); // Remove any whitespace  
  
    // Convert input to float  
    float number = input.toFloat();  
    float square = number * number;  
  
    // Display result  
    Serial.print("The square of ");  
    Serial.print(number);  
    Serial.print(" is ");  
    Serial.println(square);  
  }  
}
```

Output:-



practical6ino

```
1 //Write a program that asks the user for a number and outputs the number squared that is entered.
2
3
4 void setup() {
5   // Start serial communication
6   Serial.begin(9600);
7   Serial.println("Enter a number to square:");
8 }
9
10 void loop() {
11   // Check if data is available
12   if (Serial.available() > 0) {
13     String input = Serial.readStringUntil('\n'); // Read input until newline
14     input.trim(); // Remove any whitespace
15
16     // Convert input to float
17     float number = input.toFloat();
18     float square = number * number;
19
20     // Display result
21     Serial.print("The square of ");
```

Output Serial Monitor X

Message (Enter to send message to Arduino Uno on COM5)

14:07:44.881 -> Enter a number to square:  
14:07:49.271 -> The square of 5.00 is 25.00  
14:07:49.959 -> The square of 9.00 is 81.00  
14:07:50.529 -> The square of 8.00 is 64.00

Ln 11, Col 32 Arduino Uno on COM5 2 ENG 2:07 PM 9/10/2025