

Lab 27

```
1  #include <stdio.h>
2
3  int factorial(int num);
4
5  main()
6  {
7      int num, result_1, result_2, i;
8      printf("\nFind Factorial\n\n");
9      printf("Enter a number: ");
10     scanf("%d", &num);
11
12     // use func
13     result_1 = factorial(num);
14
15     result_2 = 1;
16     // not use func
17     for (i = 1; i <= num; i++)
18     {
19         result_2 = result_2 * i;
20     }
21
22     // with func
23     printf("Factorial of %d is %d\n", num, result_1);
24
25     // without func
26     printf("Factorial of %d is %d\n", num, result_2);
27 }
28
```

```
29  int factorial(int num)
30  {
31      if (num <= 1)
32      {
33          return 1;
34      }
35      return num * factorial(num - 1);
36  }
```