

## LAB: 13

Q.1 Write a program to find factorial using recursion

### Program

```
1 //write a program to find the factorial of a given number using Recursion.
2 #include<stdio.h>
3 int fact(int); // declaring function
4 void main()
5 {
6     int a, fac;
7     printf("Enter the value of a : ");
8     scanf("%d", &a);
9     fac = fact(a);
10    printf("The factorial of a is %d", fac);
11 }
12 int fact(int a)
13 {
14     if (a == 1)
15         return (1);
16     else
17         return fact(a-1)*a;
18 }
```

### Output



```
C:\Users\admin\Desktop\recursion.exe
Enter the value of a : 7
The factorial of a is 5040
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Process exited after 5.527 seconds with return value 26
Press any key to continue . . .
```