## 5. Factorial using Recursion.

## Sample code:

```
#include <stdio.h>
int factorial(int n) {
  if (n == 0 || n == 1)
     return 1; // Base case
  else
     return n * factorial(n - 1); // Recursive case
}
int main() {
  int num;
  printf("Enter a positive integer: ");
  scanf("%d", &num);
  if (num < 0)
     printf("Factorial is not defined for negative numbers.\n");
  else
     printf("Factorial of %d is %d\n", num, factorial(num));
  return 0;
}
```

## **Output:**

