CSA0317-DATA STRUCTURES

Program 5- Write a C program to find Factorial of a given number using Recursion

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

Output:

