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

```
#include <stdio.h>
unsigned long long factorial(int n) {
  if (n == 0 | | n == 1) {
    return 1;
  } else {
    return n * factorial(n - 1);
  }
}
int main() {
  int num;
  unsigned long long result;
  printf("Enter a positive integer: ");
  scanf("%d", &num);
  if (num < 0) {
    printf("Factorial of a negative number doesn't exist.\n");
  } else {
    result = factorial(num);
     printf("Factorial of %d = %llu\n", num, result);
  }
  return 0;
}
```

```
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1 #include <stdio.h>
2 unsigned long long factorial(int n) {
3 if (n == 0 || n == 1) {
4 return 1;
5 } else {
6 return n * factorial(n - 1);
7 }
8 }
9 int main() {
10 int num;
11 unsigned long long result;
12 printf("Enter a positive integer: ");
13 scanf("%d", %num);
14 if (num < 0) {
15 printf("Factorial of a negative number doesn't exist.\n");
16 } else {
17 result = factorial(num);
18 printf("Factorial of %d = %llu\n", num, result);
19 printf("Factorial of %d = %llu\n", num, result);
19 return 0;
20 return 0;
21 }
```