

## 5.FACTORIAL USING RECURSION:-

Code:-

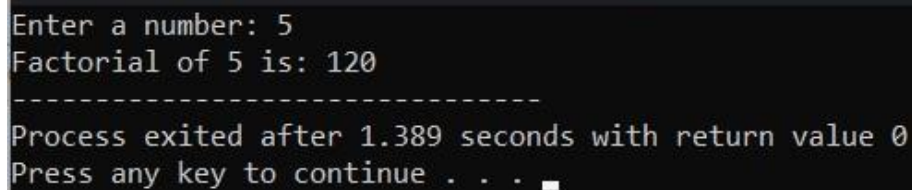
```
#include<stdio.h>

long int multiplyNumbers(int n);

int main() {
    int n;
    printf("Enter a positive integer: ");
    scanf("%d",&n);
    printf("Factorial of %d = %ld", n, multiplyNumbers(n));
    return 0;
}

long int multiplyNumbers(int n) {
    if (n>=1)
        return n*multiplyNumbers(n-1);
    else
        return 1;
}
```

OUTPUT:-



```
Enter a number: 5
Factorial of 5 is: 120
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Process exited after 1.389 seconds with return value 0
Press any key to continue . . .
```