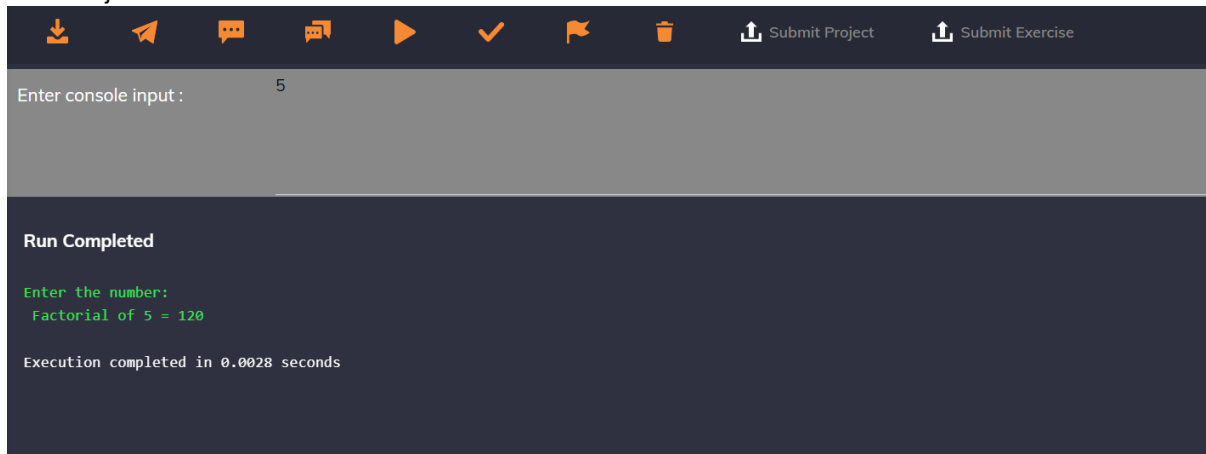


**5. Write a C program to find the factorial of a given integer number using both recursive and non-recursive functions.**

**Non Recursive:**

```
#include<stdio.h>
int main()
{
    int n,i,f;
    printf("Enter the number:\n ");
    scanf("%d",&n);
    f=1;
    for(i=1;i<=n;i++)
        f=f*i;
    printf("Factorial of %d = %d",n,f);
    return 0;
}
```



**Recursive:**

```
#include<stdio.h>
long int fact(int n);
int main( )
{
    long int n;
    printf("\n Enter an integer no:\n");
    scanf("%ld",&n);
    printf("factorial of %ld = %ld \n", n, fact(n));
    return 0;
}
long int fact(int n)
{
    if(n==0)
        return 1;
    else
        return n*fact(n-1);
}
```



Submit Project



Submit Exercise

Enter console input :

5

#### Run Completed

```
Enter an integer no:  
factorial of 5 = 120
```

Execution completed in 0.0027 seconds