PROGRAMMING LABORATORY-4

CS1000

Assignment-4

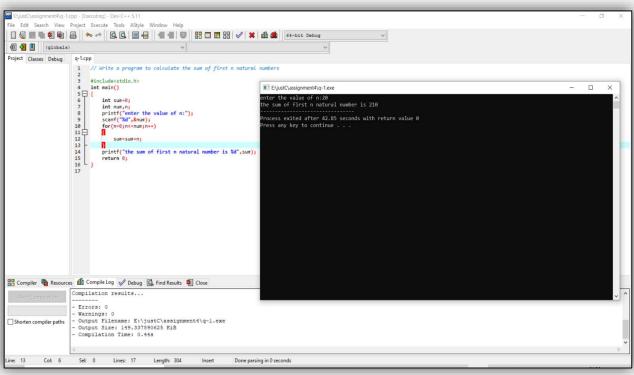
Group-P7: Section: 'E'

Prachi Nandi 120C50196

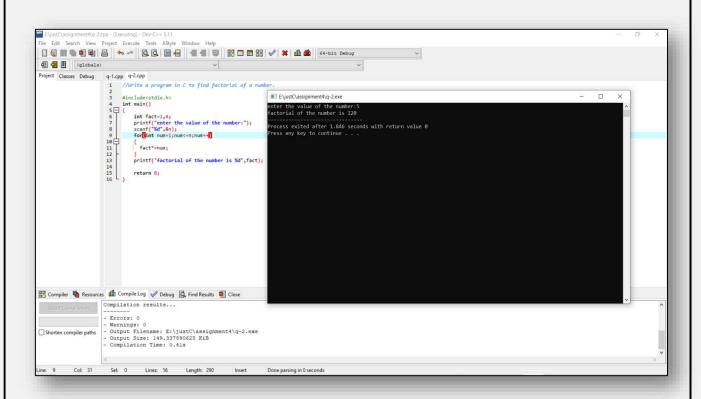
Codes are uploaded on my GitHub account: https://github.com/prachi237/justC

```
1.Write a program to calculate the sum of first n natural numbers.

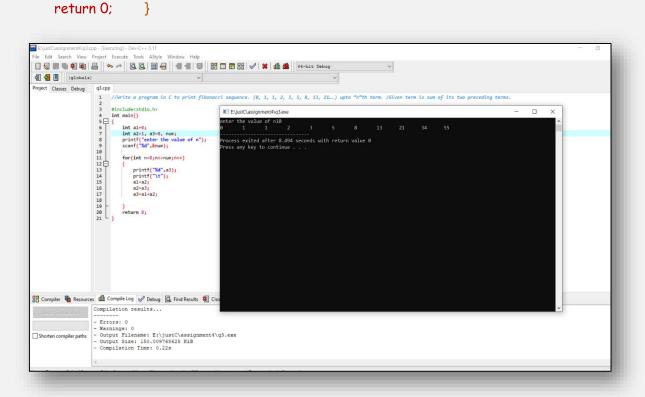
#include<stdio.h>
int main()
{
    int sum=0;
    int num,n;
    printf("enter the value of n:");
    scanf("%d",&num);
    for(n=0;n<=num;n++)
    {
        sum=sum+n;
    }
    printf("the sum of first n natural number is %d",sum);
    return 0;
}</pre>
```



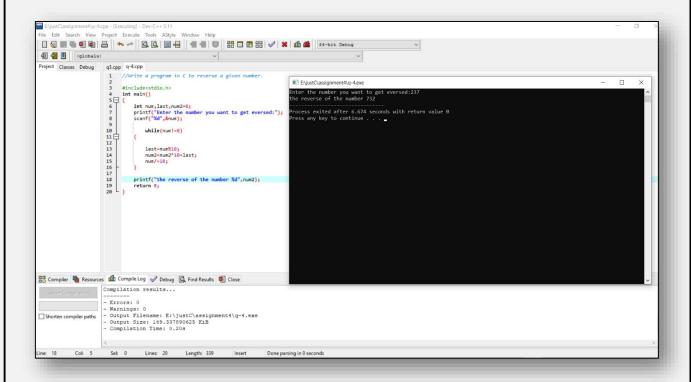
```
2.Write a program in C to find factorial of a number.
#include<stdio.h>
int main()
{
    int fact=1,n;
    printf("enter the value of the number:");
    scanf("%d",&n);
    for(int num=1;num<=n;num++)
    {
        fact*=num;
    }
    printf("factorial of the number is %d",fact);
    return 0;
}</pre>
```

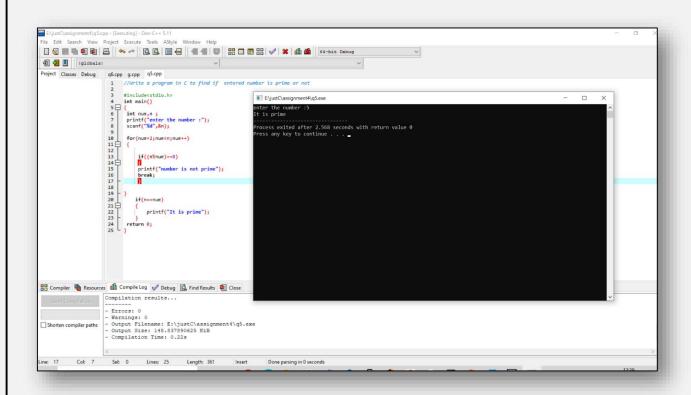


3. Write a program in C to print fibonacci sequence. (0, 1, 1, 2, 3, 5, 8, 13, 21....) upto "n"th term. Given term is sum of its two preceding terms. #include<stdio.h> int main() int a1=0; int a2=1, a3=0, num; printf("enter the value of n"); scanf("%d",&num); for(int n=0;n<=num;n++)</pre> printf("%d",a3); printf("\t"); a1=a2; a2=a3; a3=a1+a2;



```
4. Write a program in C to reverse a given number.
#include<stdio.h>
int main()
{
    int num,last,num2=0;
    printf("Enter the number you want to get eversed:");
    scanf("%d",&num);
    while(num!=0)
        {
        last=num%10;
        num2=num2*10+last;
        num/=10;
        }
    printf("the reverse of the number %d",num2);
    return 0;
}
```





```
6. Write a program in C to display the pattern like right angle triangle with a number.
The pattern like: 1
                    1 2
                   1 2 3
                      ...n
#include<stdio.h>
int main()
      int n;
      printf(" %d enter the no. of rows till which you want the triangle to form :");
      scanf("%d",&n);
      for(int num=1;num<=n;num++)</pre>
      {
            for(int num2=1;num2<num;num2++)</pre>
                   printf("%d",num2);
              printf("%d",num);
              printf("\n");
       }
   return 0;
```

Codes are uploaded on my GitHub account: https://github.com/prachi237/justC

Submitted by: Prachi Nandi 120C50196

-Thank you-