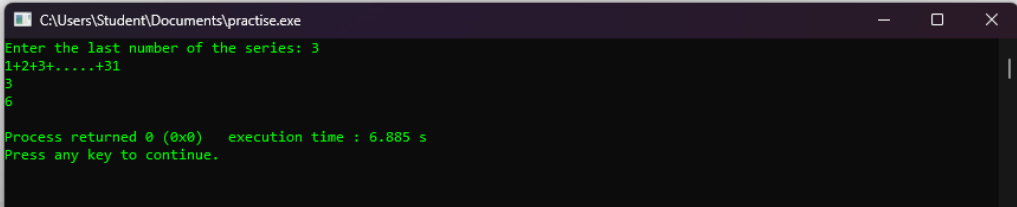


## For , while & do while loop problem

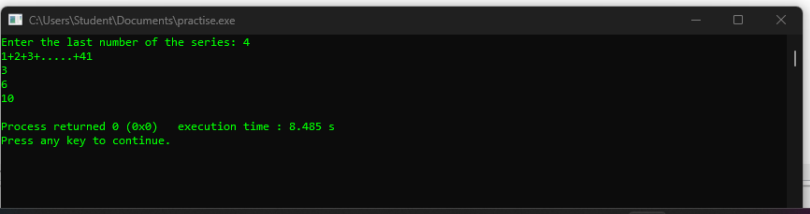
### 1. Summation of series-i

```
rt here x practise.c x
1  #include<stdio.h>
2  int main()
3  {
4      int n,sum=0,i;
5      printf("Enter the last number of the series: ");
6      scanf("%d",&n);
7
8      printf("1+2+3+.....+%d",n);
9
10     for (i=1;i<=n;i++)
11     {
12         sum = sum + i;
13         printf("%d\n",sum);
14     }
15     getch();
16
17 }
18
```




```
C:\Users\Student\Documents\practise.exe
Enter the last number of the series: 3
1+2+3+.....+31
3
6
10
Process returned 0 (0x0)   execution time : 6.885 s
Press any key to continue.
```

```
1  #include<stdio.h>
2  int main()
3  {
4      int n,sum=0,a=1;
5      printf("Enter the last number of the series: ");
6      scanf("%d",&n);
7
8      printf("1+2+3+.....+%d",n);
9
10     while(a<=n)
11     {
12         sum = sum + a;
13         a = a + 1;
14         printf("%d\n",sum);
15     }
16     getch();
17
18 }
19
```

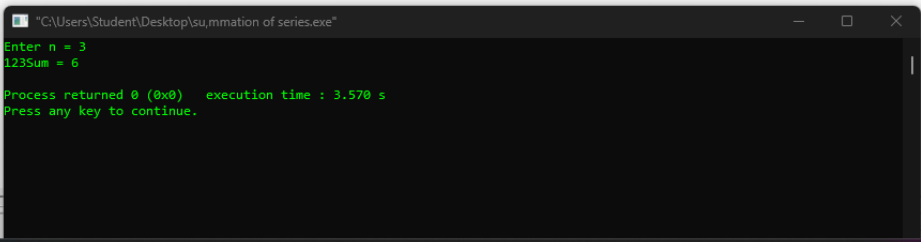


```
C:\Users\Student\Documents\practise.exe
Enter the last number of the series: 4
1+2+3+.....+41
3
6
10
Process returned 0 (0x0)   execution time : 8.485 s
Press any key to continue.
```

```
art here x practise.c x series 3.c x
1 // 1*2+2*3*4+...+n1*n2
2 #include<stdio.h>
3 int main()
4 {
5     int n1,n2,sum=0,a=1,b=2;
6     printf("Enter n1 and n2 : ");
7     scanf("%d %d",&n1,&n2);
8
9     printf("1.2 + 2.3 + 3.4 + ....+ %.%d",n1,n2);
10
11     while(a<=n1 && b<=n2)
12     {
13         sum = sum + a*b;
14         a = a + 1 ;
15         b = b + 2 ;
16     }
17
18     printf("= %d\n",sum);
19
20
21
22
23 }
```



```
Start here x practise.c x series 3.c x summation of series.c x
1 // 1 + 2 + 3 + ..... + n
2 #include<stdio.h>
3 int main()
4 {
5     int i,n,sum = 0 ;
6
7     printf("Enter n = ");
8     scanf("%d",&n);
9     for (i=1; i<=n; i++)
10     {
11         printf("%d",i);
12         sum = sum + i ;
13     }
14     printf("Sum = %d\n",sum);
15
16
17 }
```



```

1 // 1.5 + 2.5 + 3.5 + ..... + n
2 #include<stdio.h>
3 int main()
4 {
5     float i,sum = 0,n;
6
7     printf("Enter n = ");
8     scanf("%f",&n);
9     for (i=1.5; i<=n; i++)
10    {
11        sum = sum + i ;
12    }
13    printf("sum = %f\n",sum);
14
15 }
16

```

```

"C:\Users\Student\Desktop\suummation of series.exe"
Enter n = 5
sum = 12.000000
Process returned 0 (0x0)   execution time : 3.204 s
Press any key to continue.

```

```

1 //1^2+2^2+3^2+....+n
2 //1 | 2 | 3 | .....|n
3
4 #include<stdio.h>
5 int main()
6 {
7     int n, i,sum = 0;
8
9     printf("Enter n = ");
10    scanf("%d",&n);
11    for (i=1; i<=n; i++)
12    {
13        sum = sum + i*i ;
14    }
15    printf("sum = %d\n",sum);
16
17 }
18

```

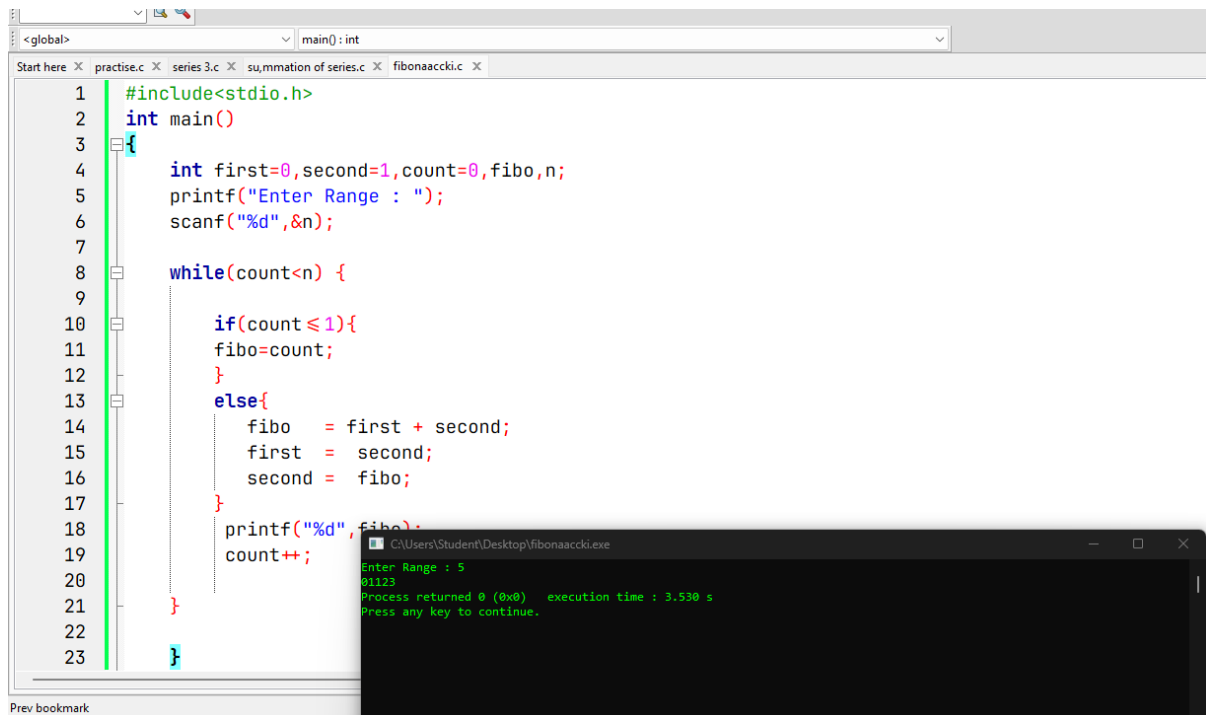
```

"C:\Users\Student\Desktop\suummation of series.exe"
Enter n = 4
sum = 30
Process returned 0 (0x0)   execution time : 1.553 s
Press any key to continue.

```

Next bookmark

# Fibannaco series Related problem



The image shows a code editor window with a C program for calculating the Fibonacci series. The code is as follows:

```
1  #include<stdio.h>
2  int main()
3  {
4      int first=0,second=1,count=0,fibo,n;
5      printf("Enter Range : ");
6      scanf("%d",&n);
7
8      while(count<n) {
9
10         if(count<=1){
11             fibo=count;
12         }
13         else{
14             fibo = first + second;
15             first = second;
16             second = fibo;
17         }
18         printf("%d",fibo);
19         count++;
20     }
21 }
22
23 }
```

Below the code editor, a terminal window titled "C:\Users\Student\Desktop\Fibonaaccki.exe" shows the program's execution. The user has entered the range 5. The output shows the first five Fibonacci numbers: 0, 1, 1, 2, 3. The program then returns 0 and displays the execution time as 3.530 s.

```
C:\Users\Student\Desktop\Fibonaaccki.exe
Enter Range : 5
01123
Process returned 0 (0x0)   execution time : 3.530 s
Press any key to continue.
```