G. H. RAISONI COLLEGE OF ENGINEERING
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Department of Artificial Intelligence

Phase 2 : Skill Course – Fundamentals of Programming Using C

TAE – I

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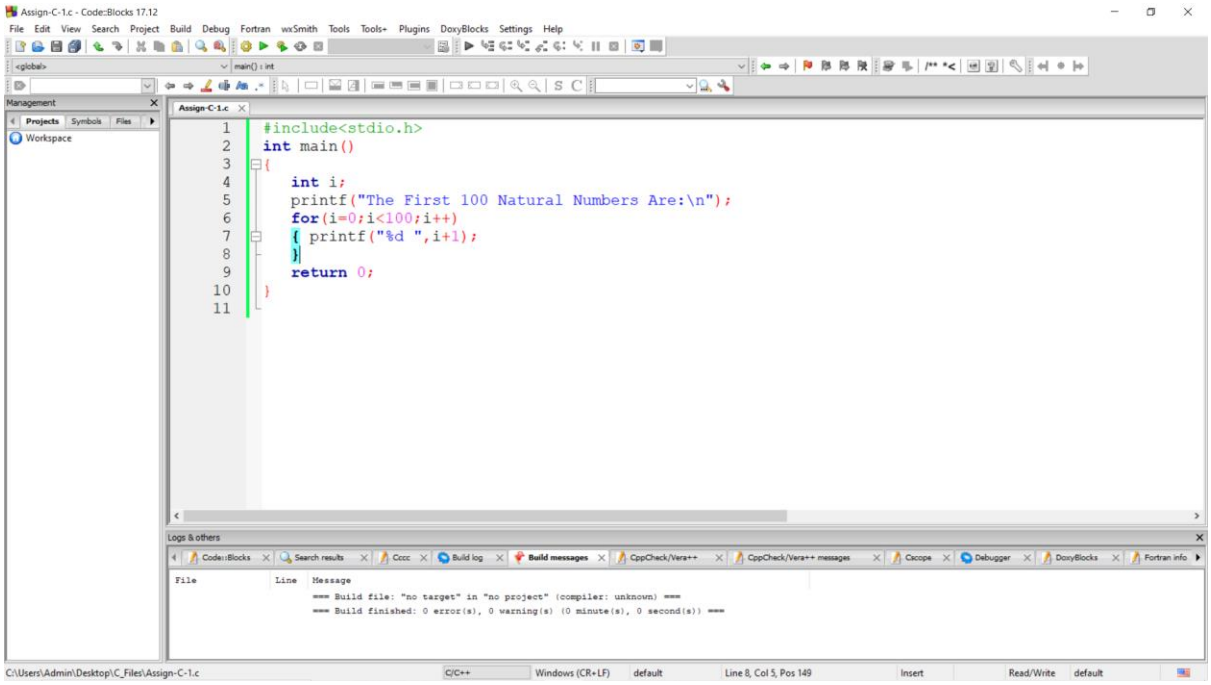
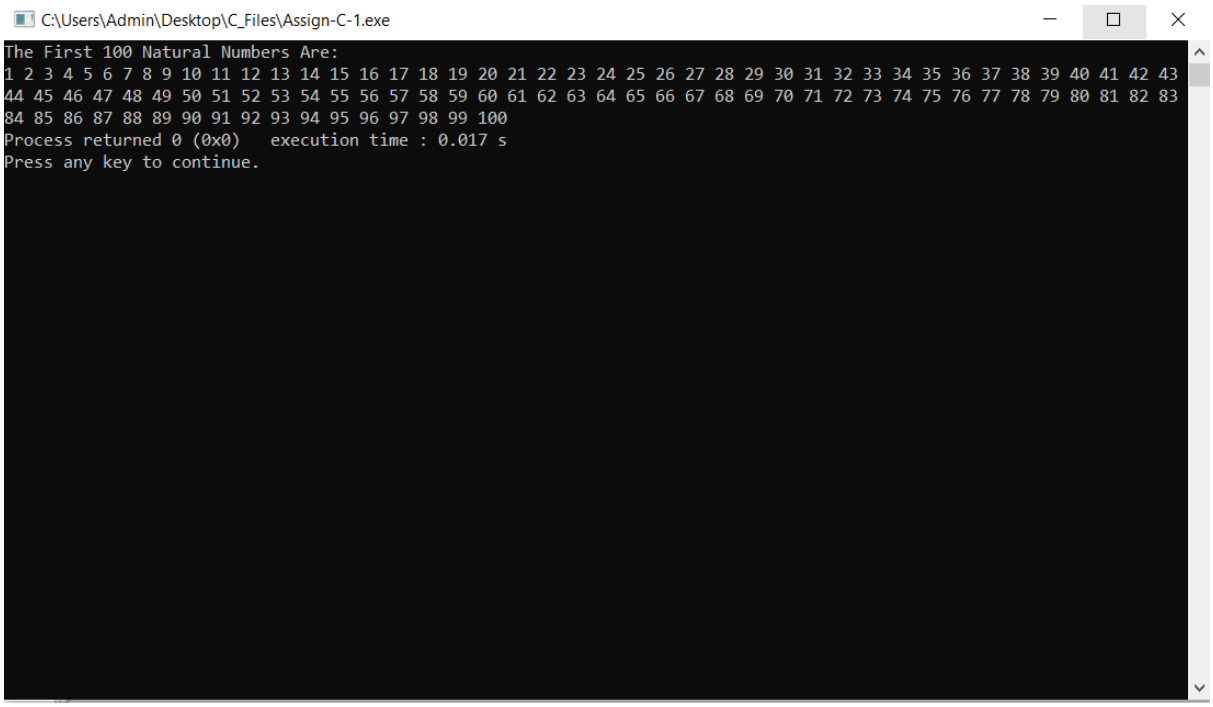
Roll no.=44

Section=C

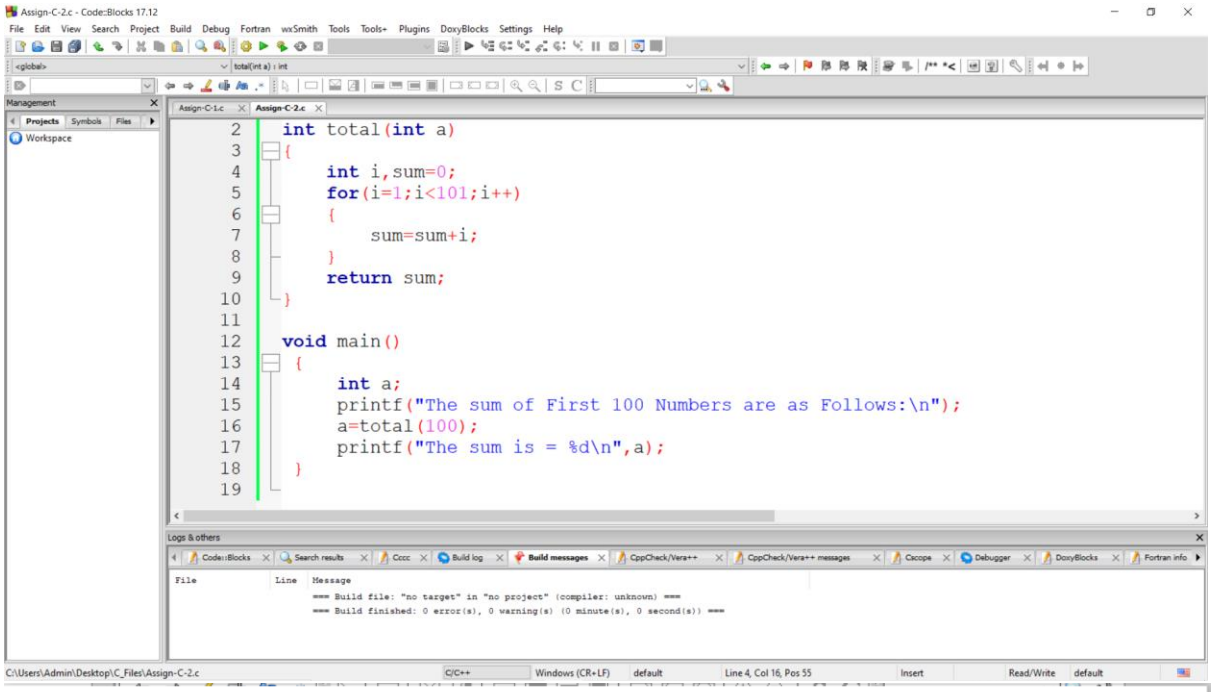
Submitted To: Prof. A. Thomas

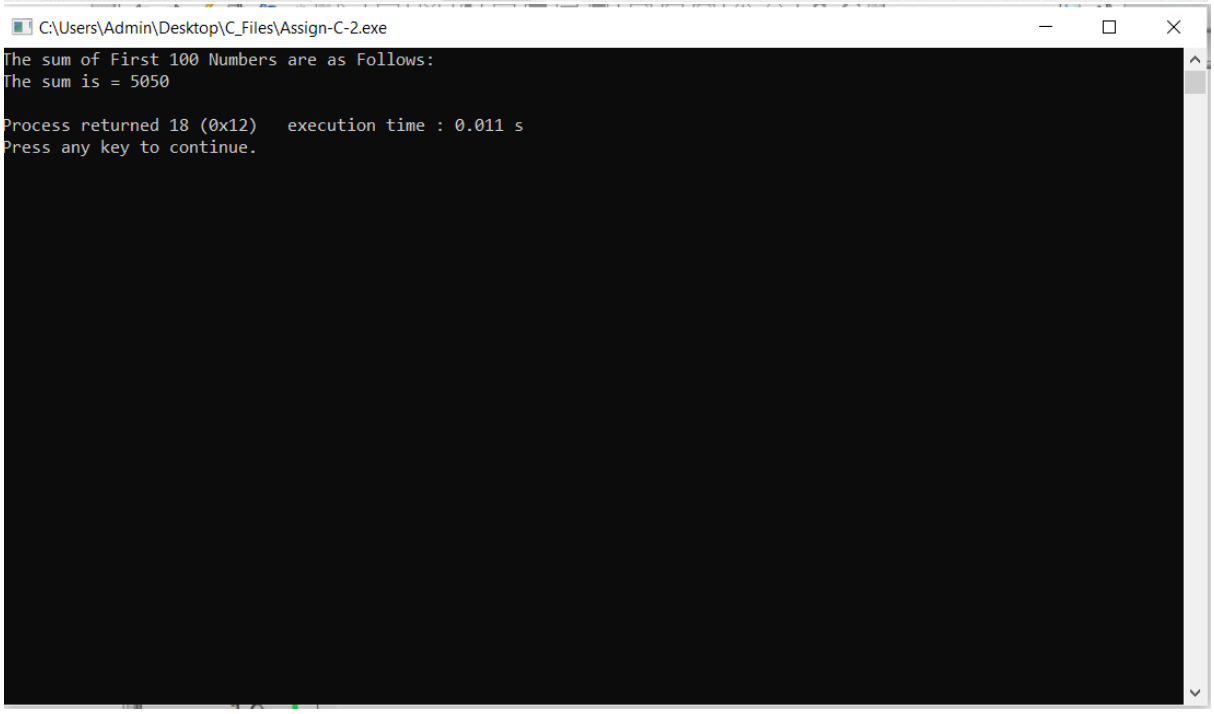
1) Write a C program to print the first 100 natural numbers



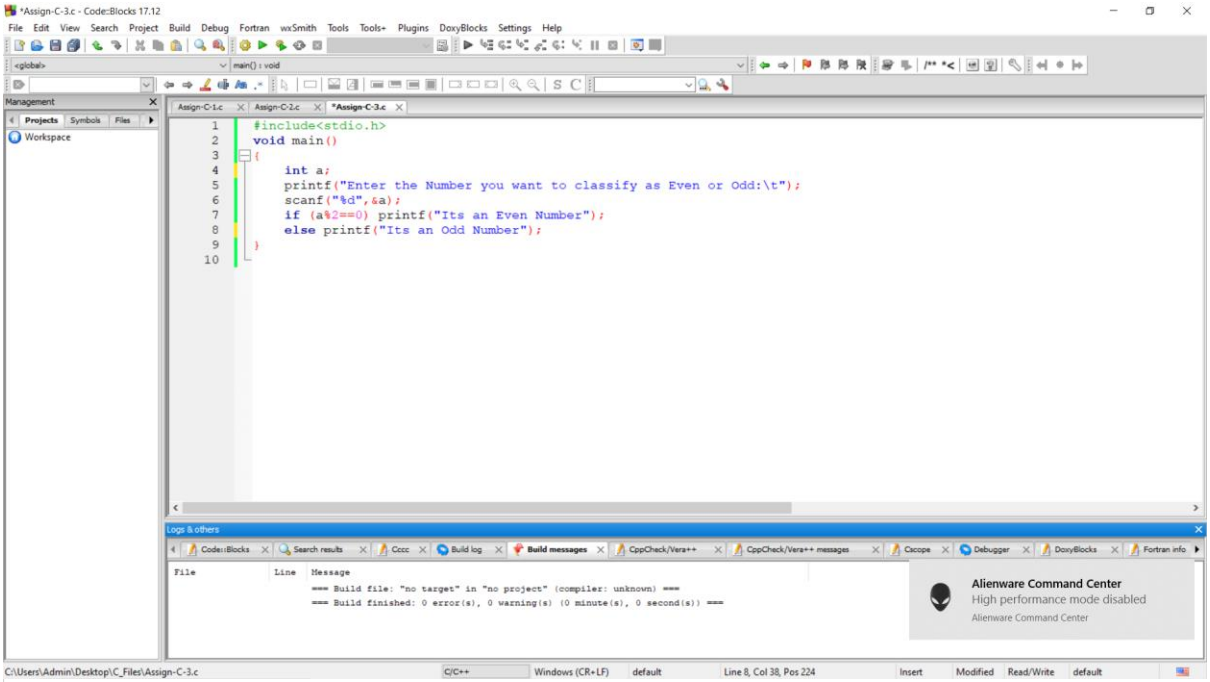


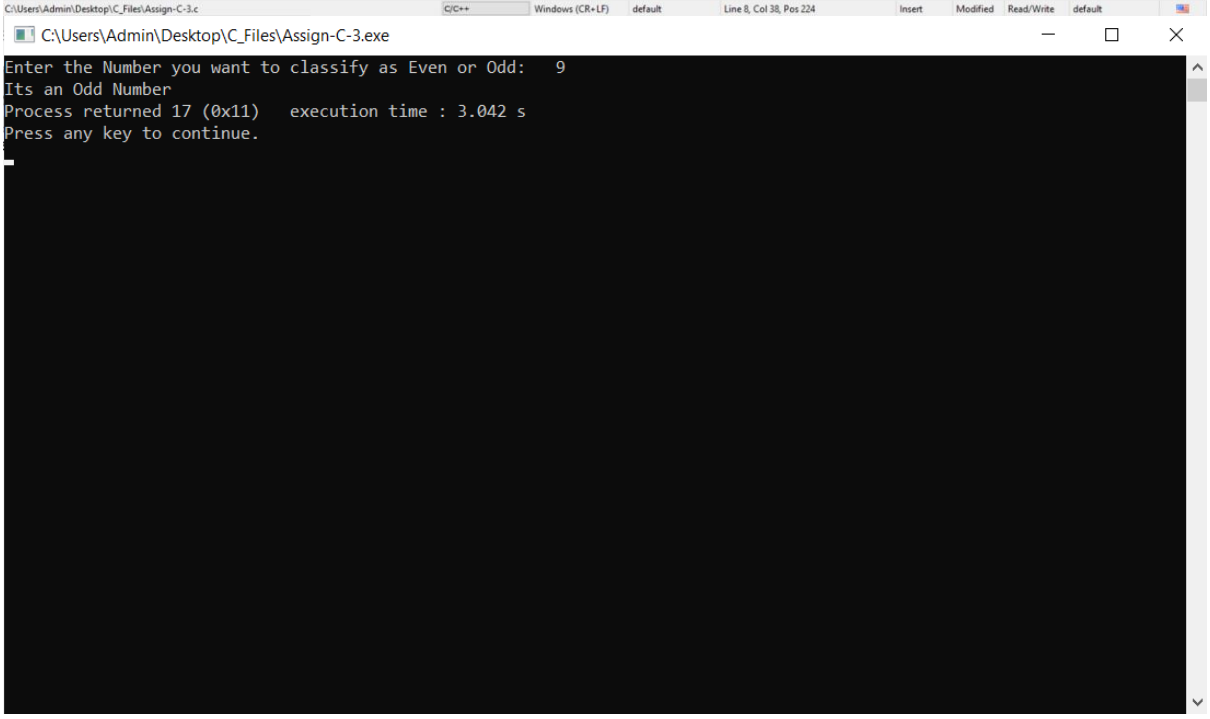
2) Write a C program to find the sum of first n natural numbers



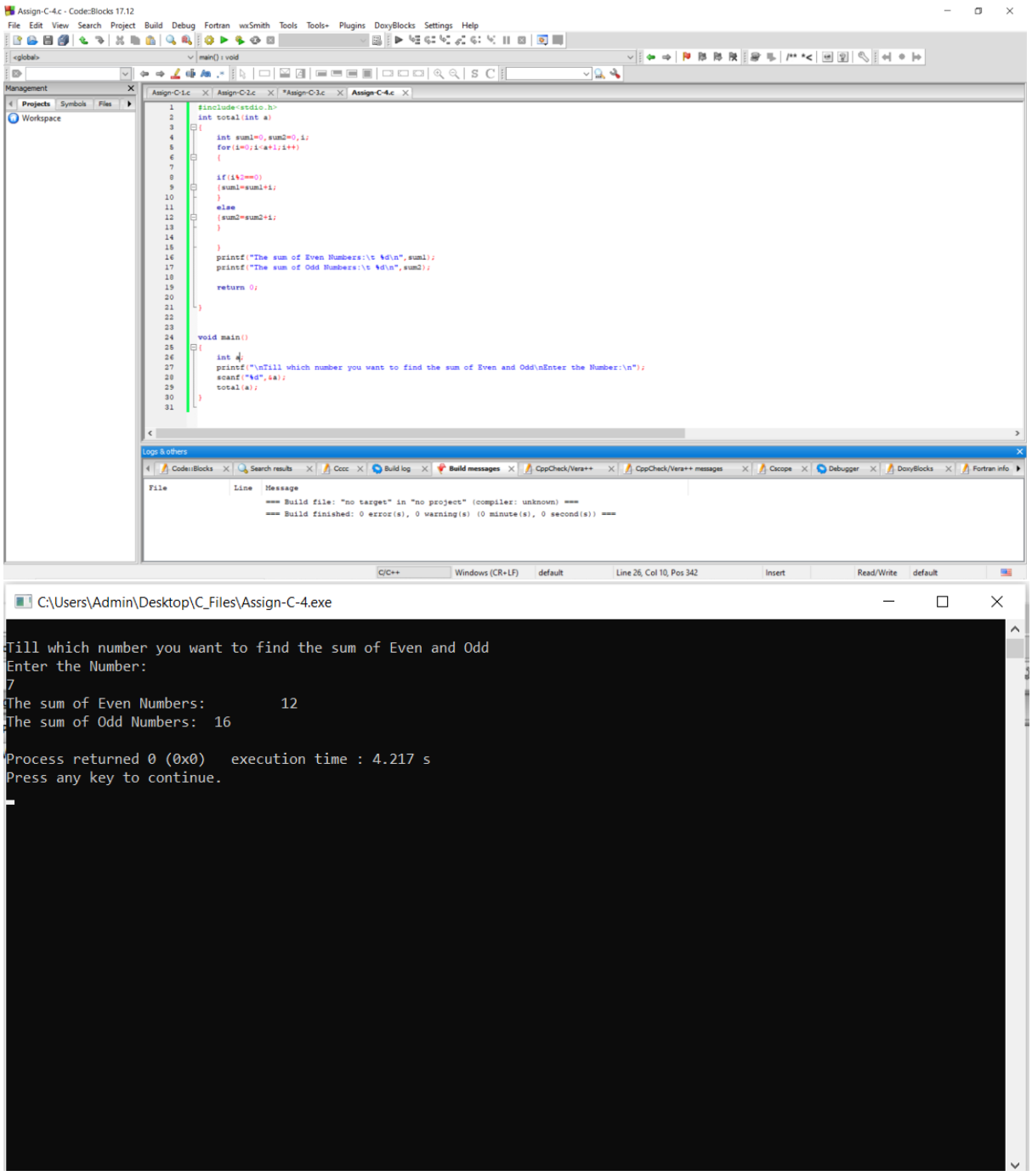


3) Write a C program to print if the entered number is even or odd

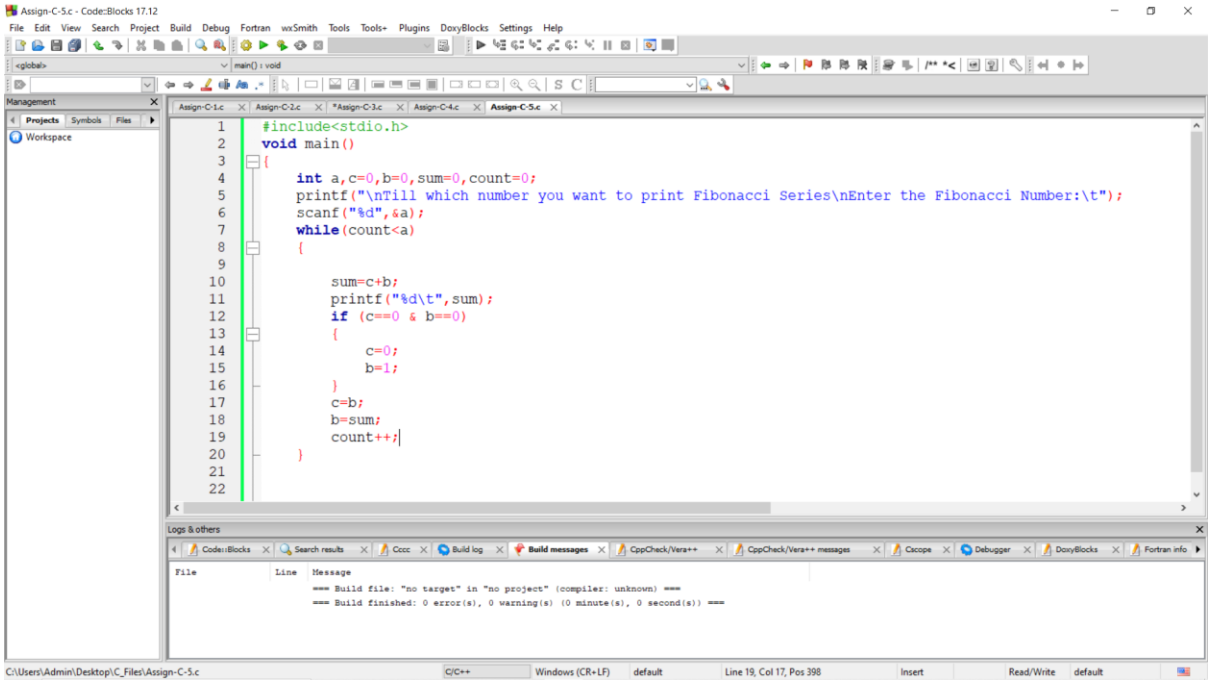


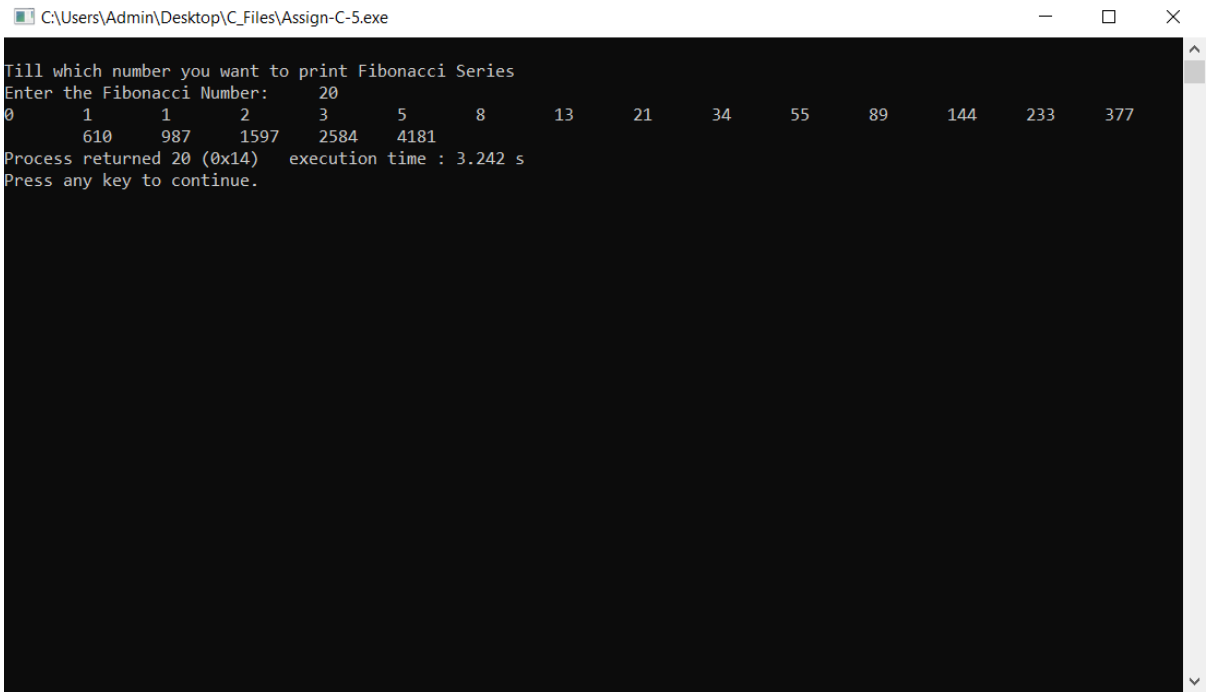


4) Write a C program to find the sum of odd numbers and even numbers of n natural numbers

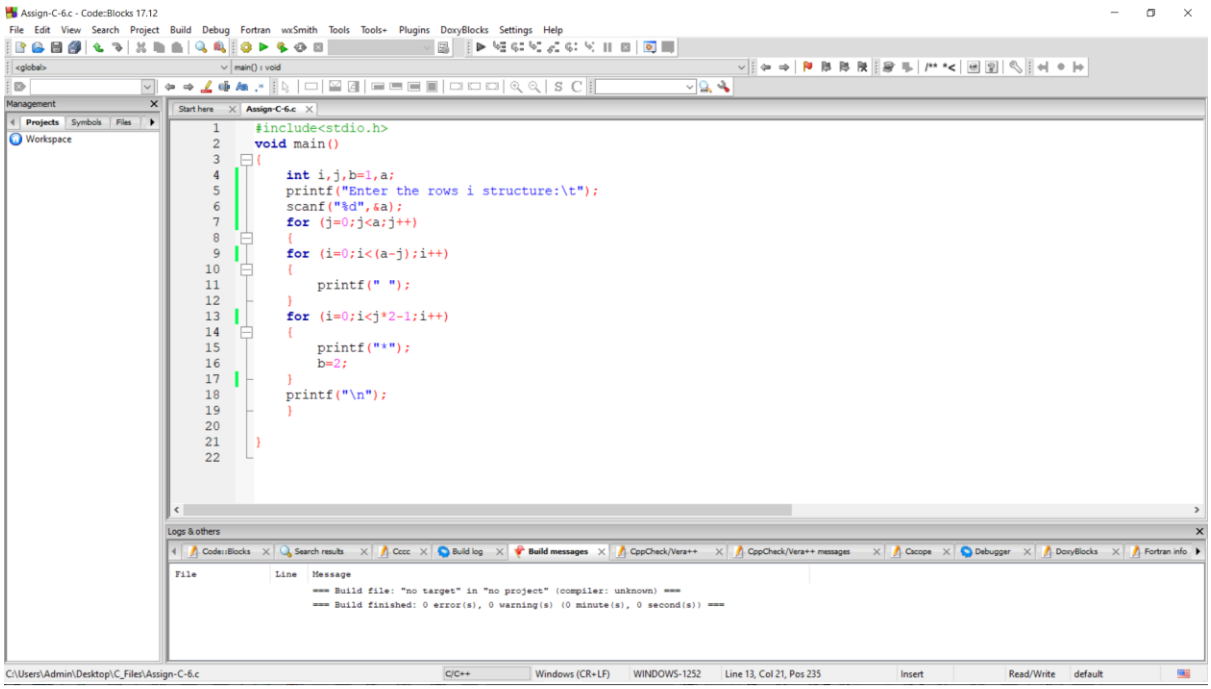


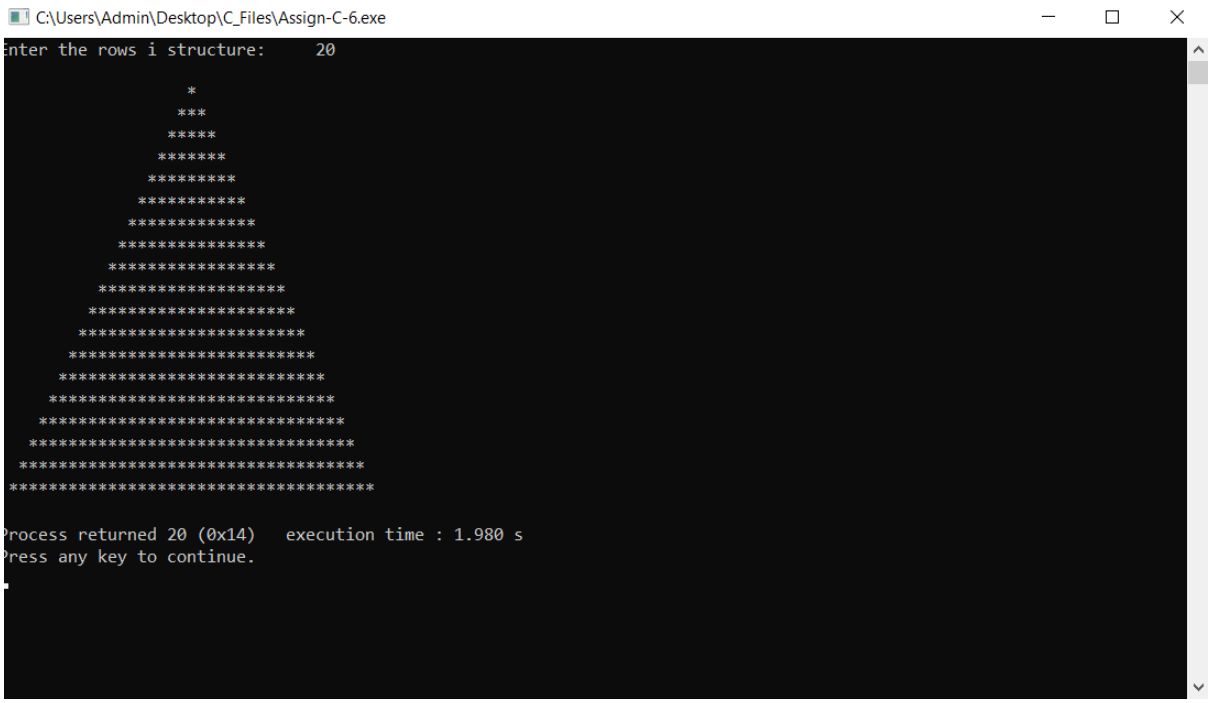
5) Write a C program to print the Fibonacci



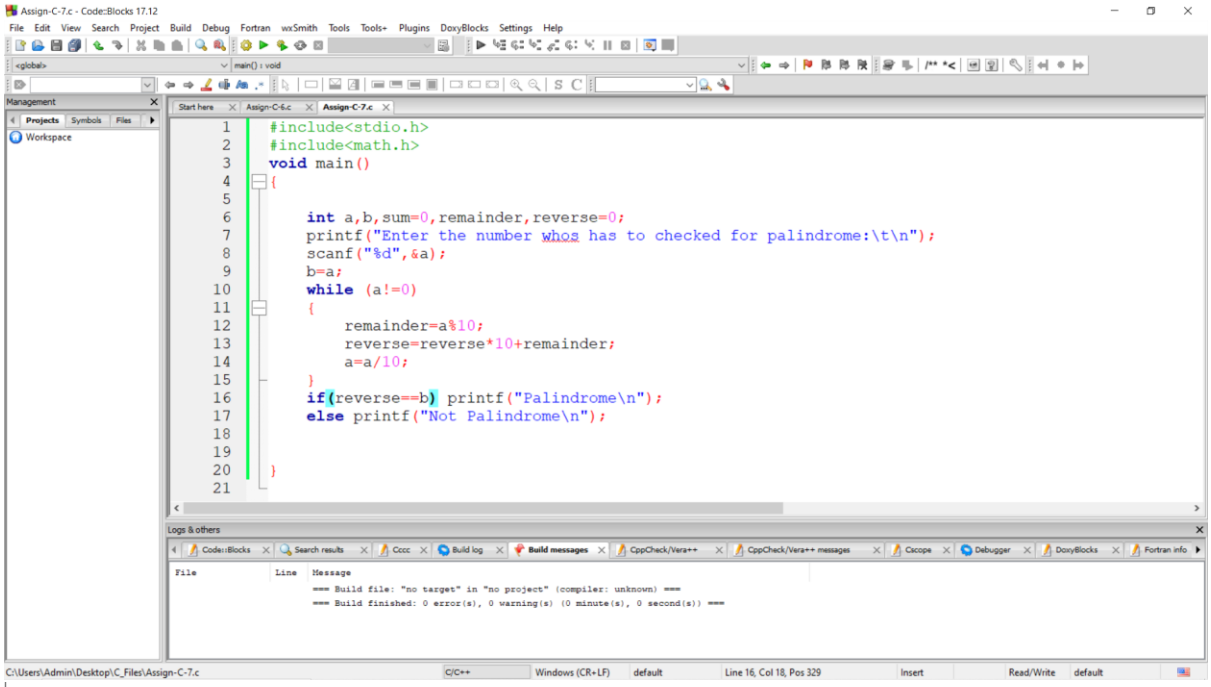


6) Write a C program to print a pyramid of stars.

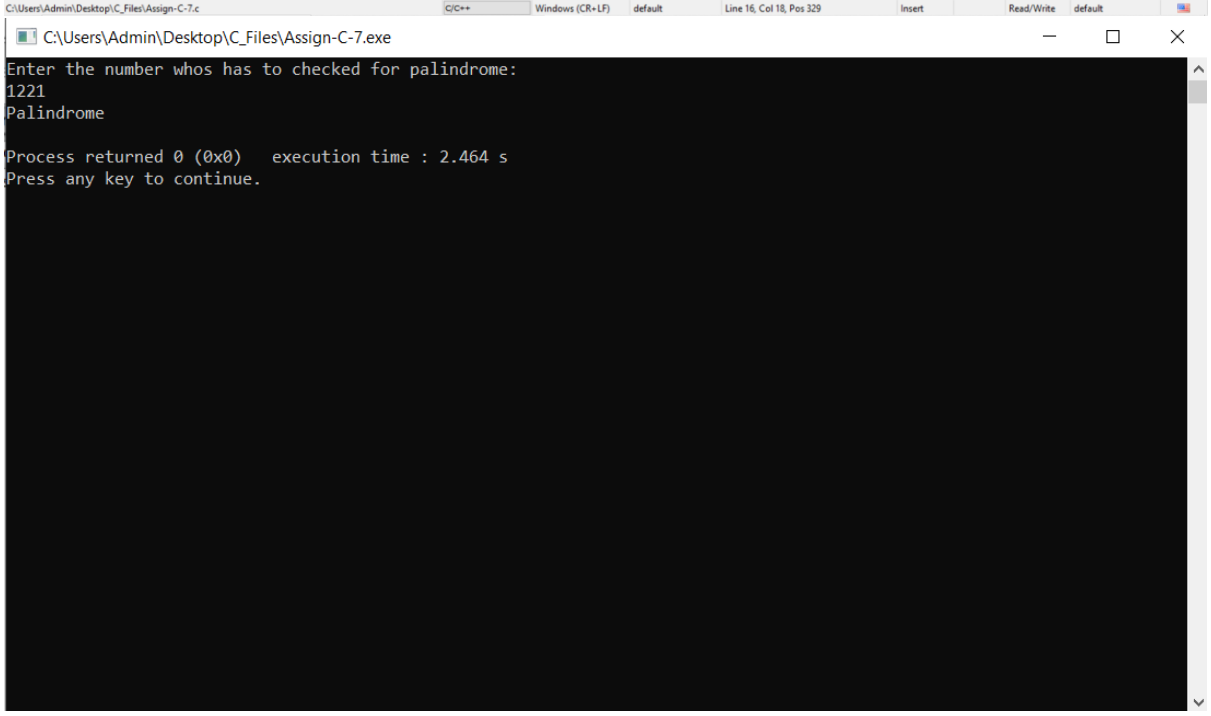




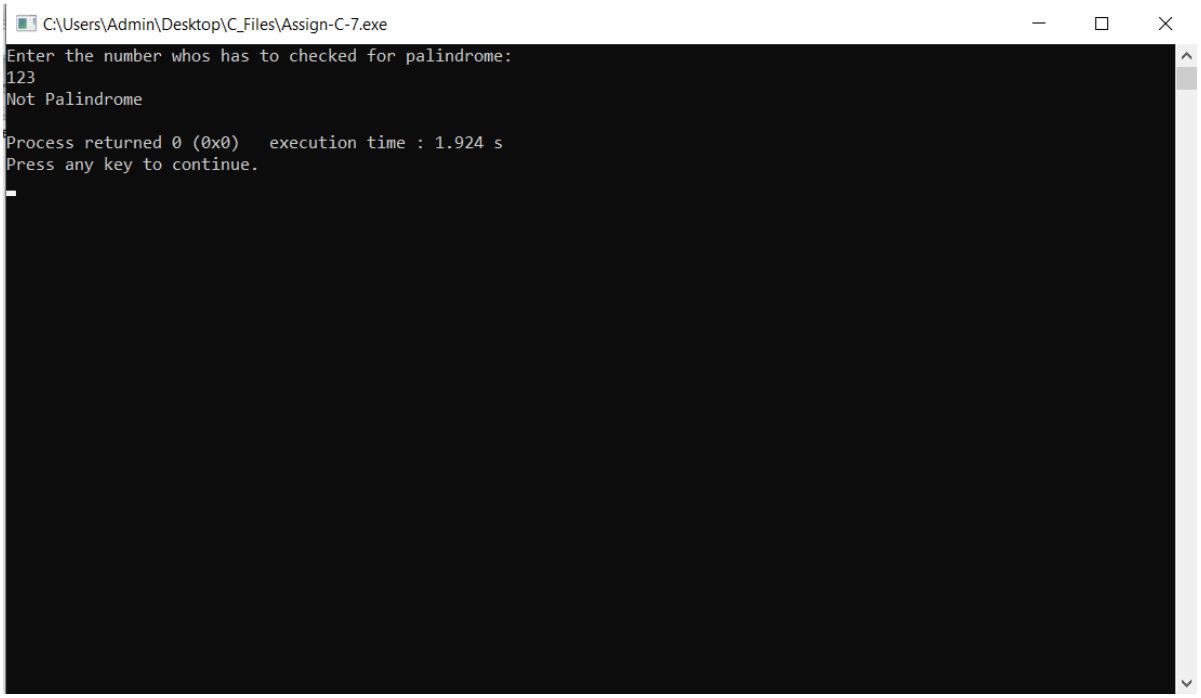
7) Write a C program to find if the entered number is a palindrome



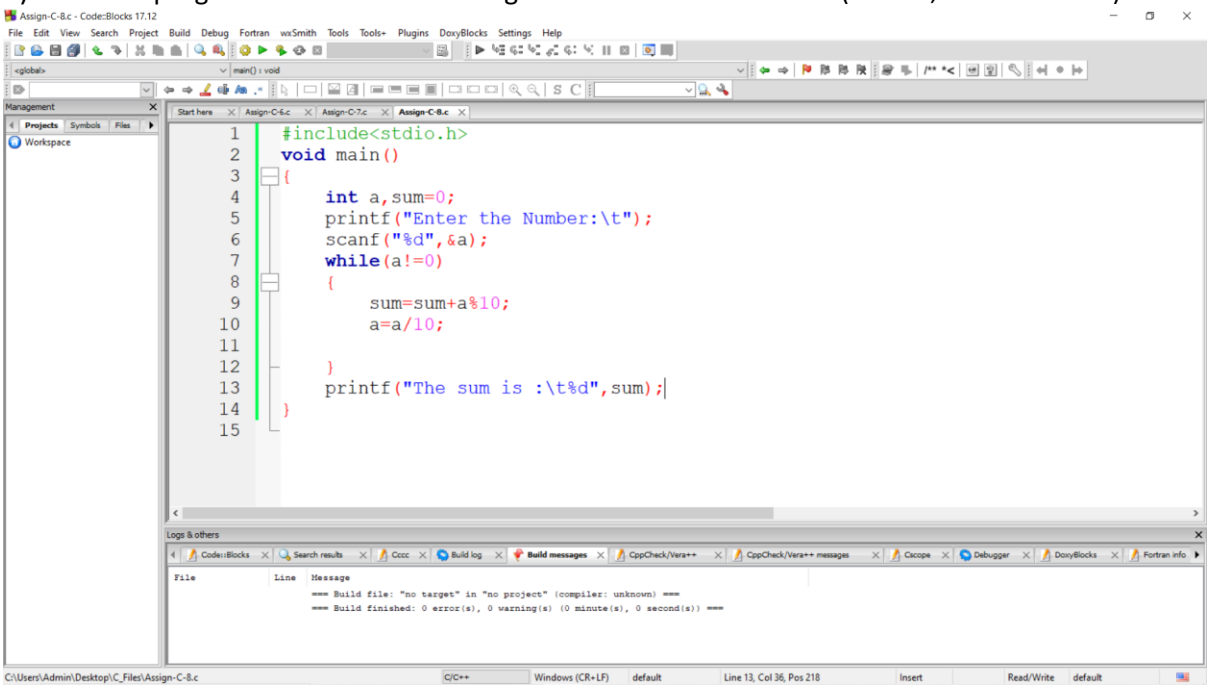
```c
#include<stdio.h>
#include<math.h>
void main()
{

    int a,b,sum=0,remainder,reverse=0;
    printf("Enter the number whos has to checked for palindrome:\t\n");
    scanf("%d",&a);
    b=a;
    while (a!=0)
    {
        remainder=a%10;
        reverse=reverse*10+remainder;
        a=a/10;
    }
    if(reverse==b) printf("Palindrome\n");
    else printf("Not Palindrome\n");


}
```

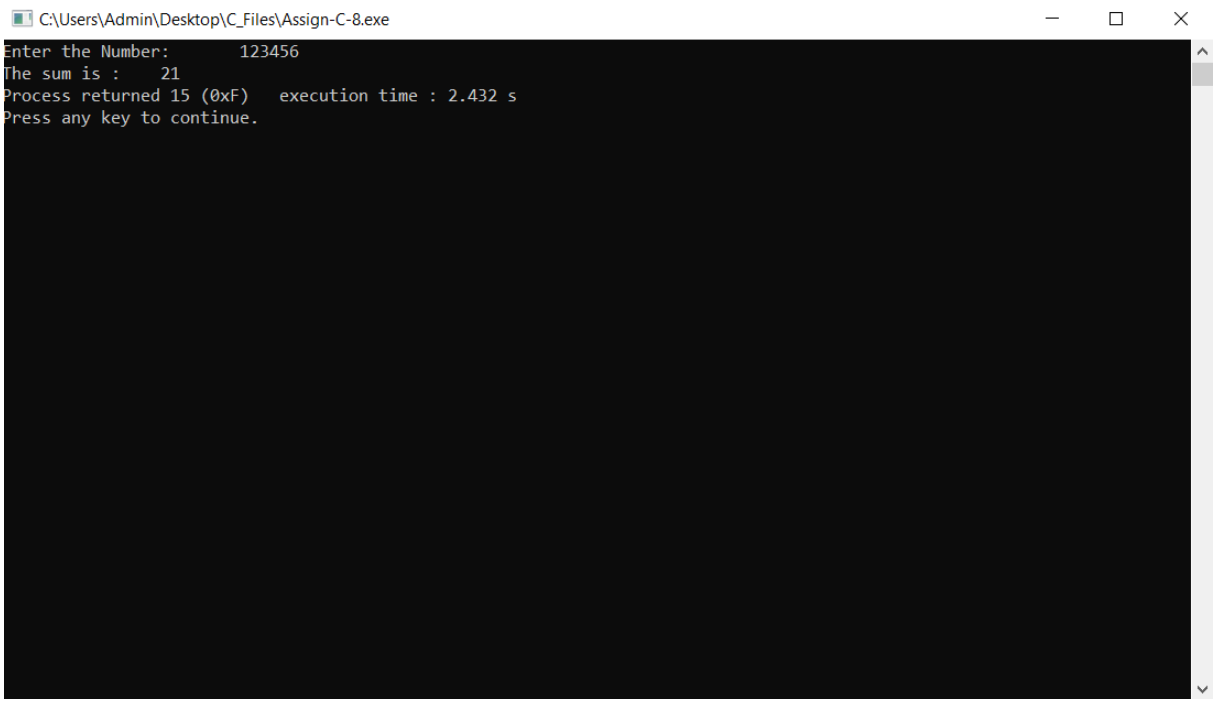


```
C:\Users\Admin\Desktop\C_Files\Assign-C-7.exe
Enter the number whos has to checked for palindrome:
1221
Palindrome

Process returned 0 (0x0)   execution time : 2.464 s
Press any key to continue.
```

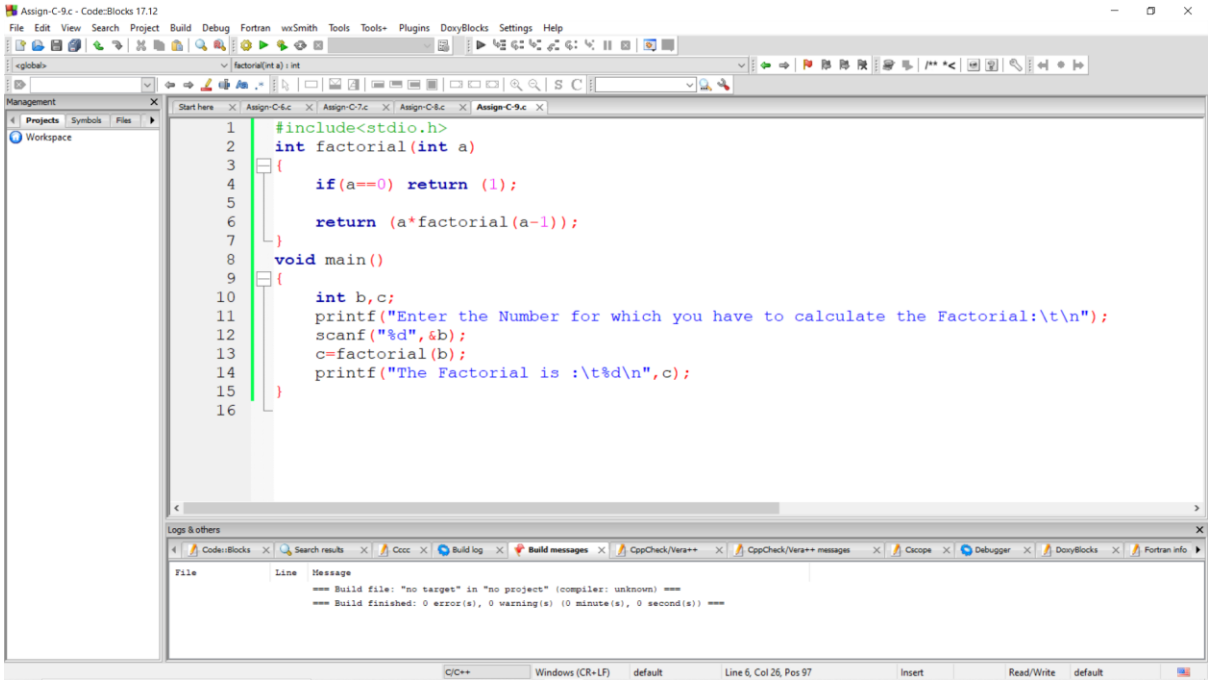


8) Write a C program to find the sum of digits of the entered number. (n=123 , sum=1+2+3=6)



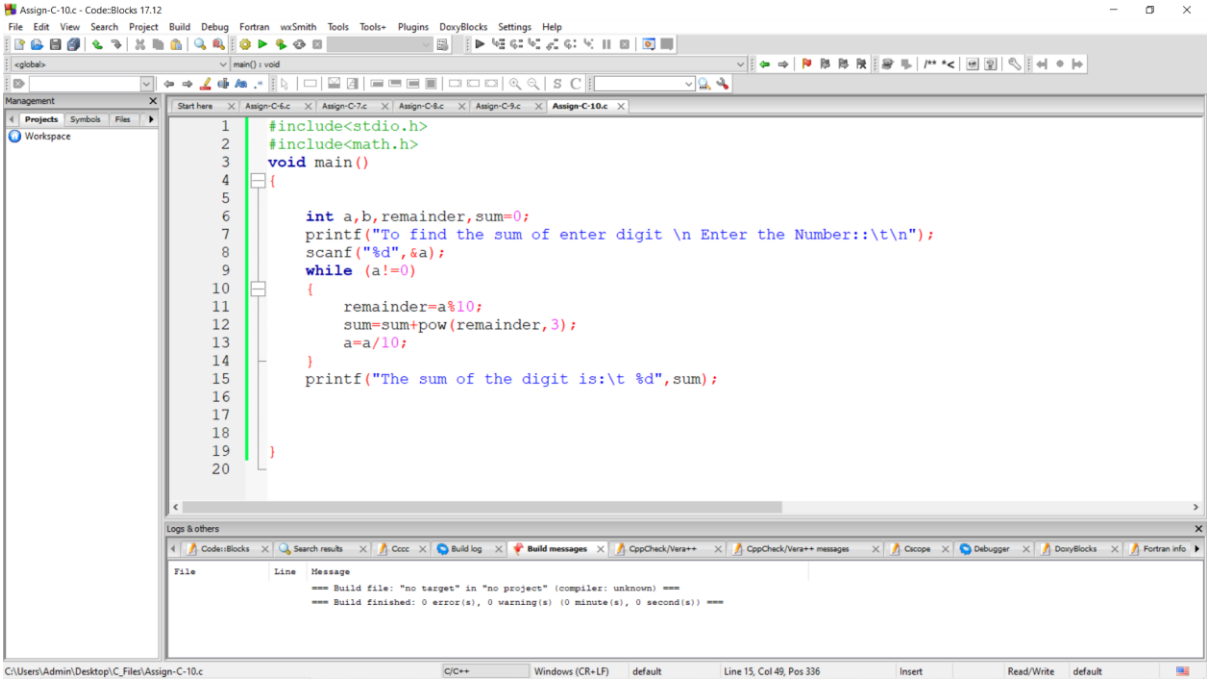


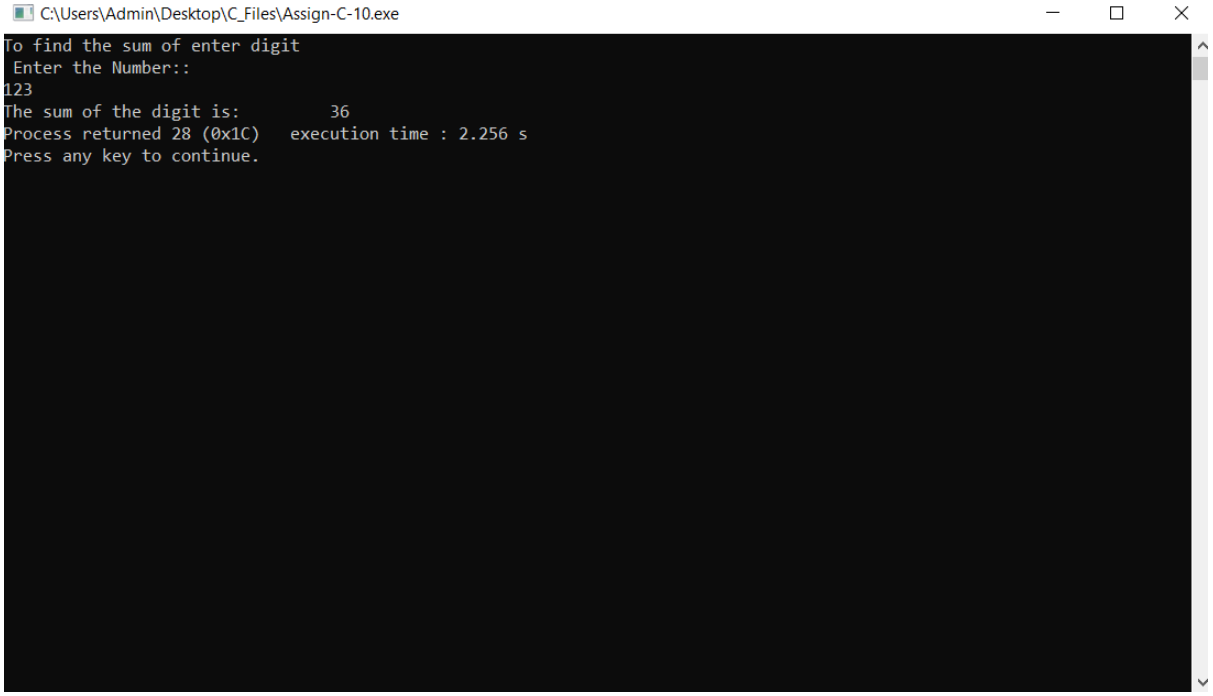
9) Write a C program to print the factorial of a number



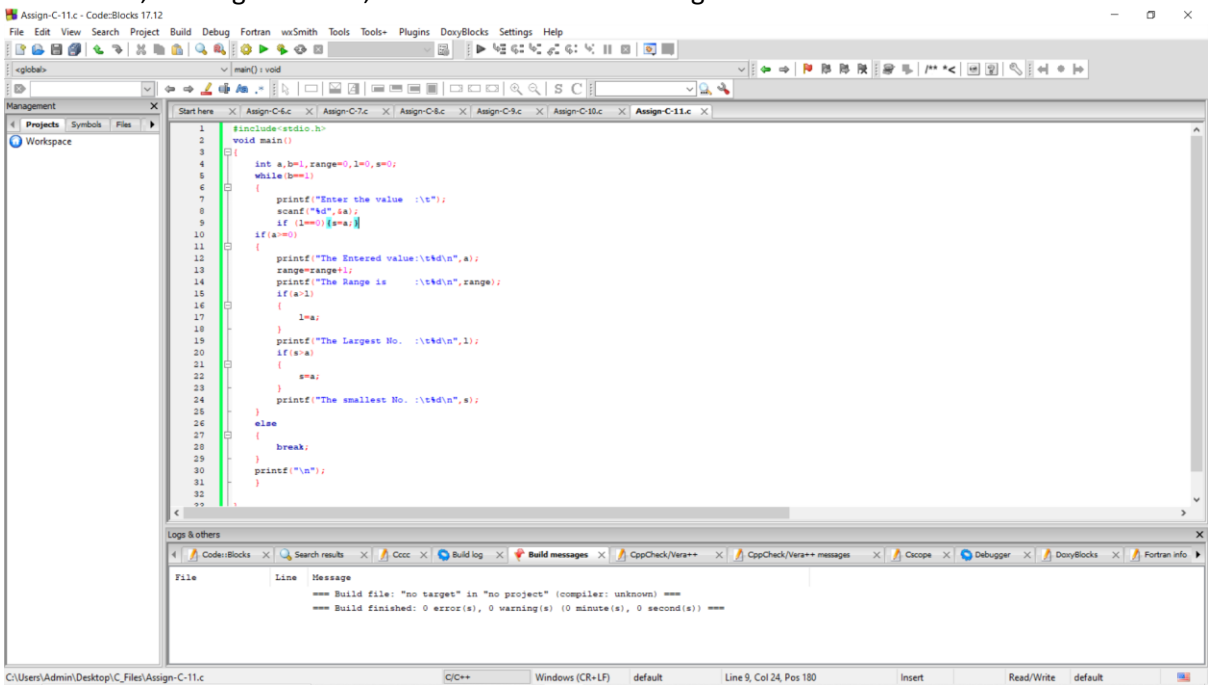
```
C:\Users\Admin\Desktop\C_Files\Assign-C-9.exe
Enter the Number for which you have to calculate the Factorial:
5
The Factorial is :      120

Process returned 23 (0x17)   execution time : 2.191 s
Press any key to continue.
```

10) Write a C Program to print the sum of cube of digits of a number (n=123, sum = 1+4+9 = 14)





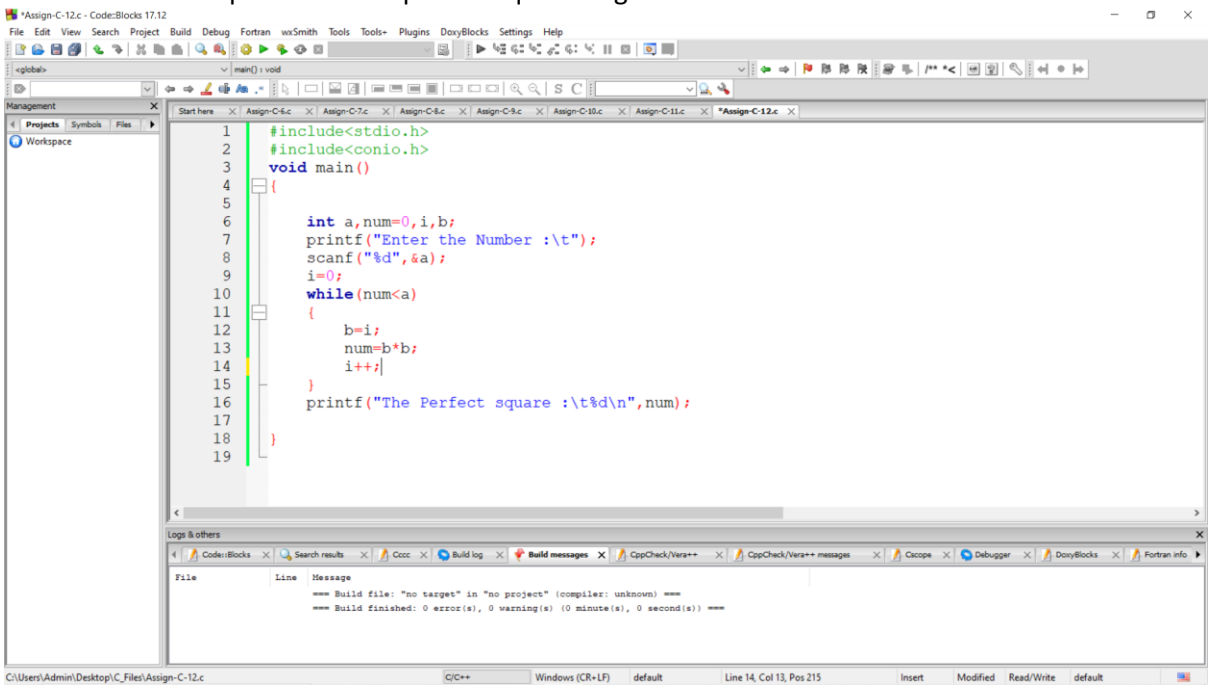
11) Write a program that reads number until a negative number is read and prints the number of values read, the largest values, smallest value and the range

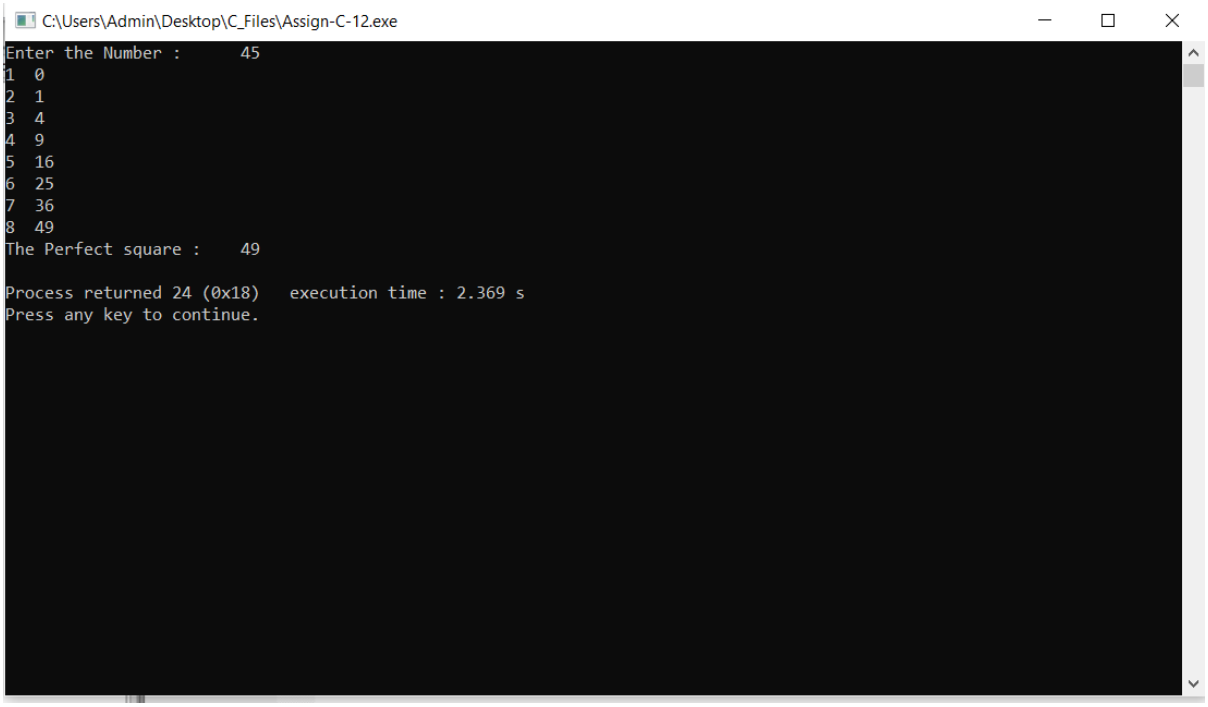


C:\Users\Admin\Desktop\C_Files\Assign-C-11.exe

```
Enter the value  :      1
The Entered value:      1
The Range is     :      1
The Largest No.  :      1
The smallest No. :      1

Enter the value  :      3
The Entered value:      3
The Range is     :      2
The Largest No.  :      3
The smallest No. :      1

Enter the value  :      6
The Entered value:      6
The Range is     :      3
The Largest No.  :      6
The smallest No. :      1

Enter the value  :      8
The Entered value:      8
The Range is     :      4
The Largest No.  :      8
The smallest No. :      1

Enter the value  :      -49

Process returned -49 (0xFFFFFFCF)   execution time : 10.390 s
Press any key to continue.
```

12) A perfect square is an integer which is the square of another integer. Write a program that reads a number and computes the first perfect square larger than this number.




C:\Users\Admin\Desktop\C_Files\Assign-C-12.exe
Enter the Number :   45
1 0
2 1
3 4
4 9
5 16
6 25
7 36
8 49
The Perfect square :   49
Process returned 24 (0x18)   execution time : 2.369 s
Press any key to continue.