

CSA5734-FUNDAMENTALS OF COMPUTING FOR DATABASE SYSTEM

DATE:03-10-2022

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DAY-1

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1.Generation of number series 1, 2, 3, 4,.....n

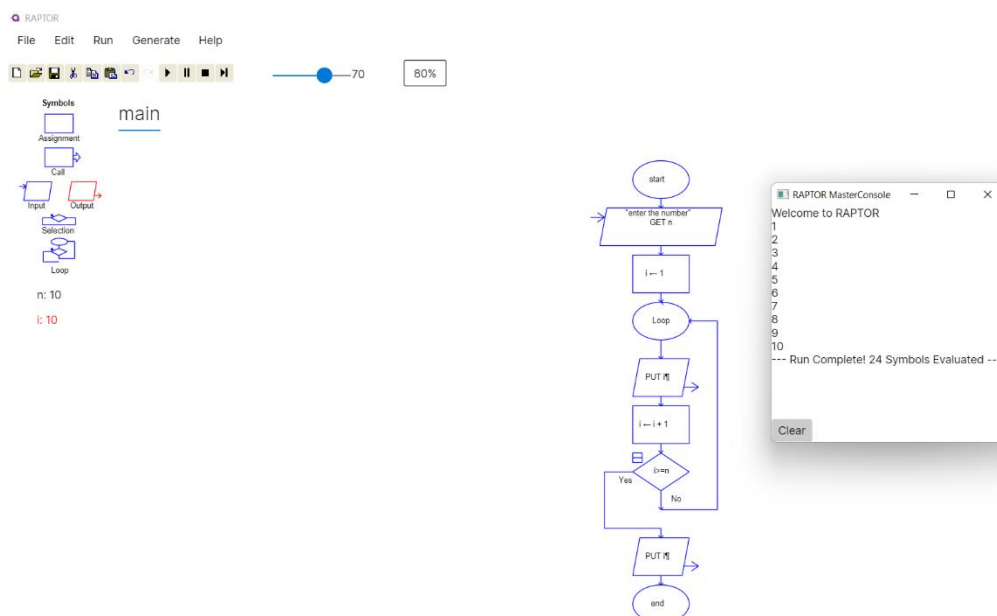
The screenshot shows the Dev-C++ IDE with a C++ program named 'number series.cpp' open. The program prompts the user to enter a number 'n' and then prints the series 1, 2, 3, 4, ..., n. The program has been compiled successfully, and the output window shows the execution results for 'n = 25'.

```
1 #include <stdio.h>
2 int main()
3 {
4     int i,n;
5     printf("enter number: ");
6     scanf("%d",&n);
7     for(i=1;i<=n;i++)
8     {
9         printf("%d\n",i);
10    }
11    return 0;
12 }
```

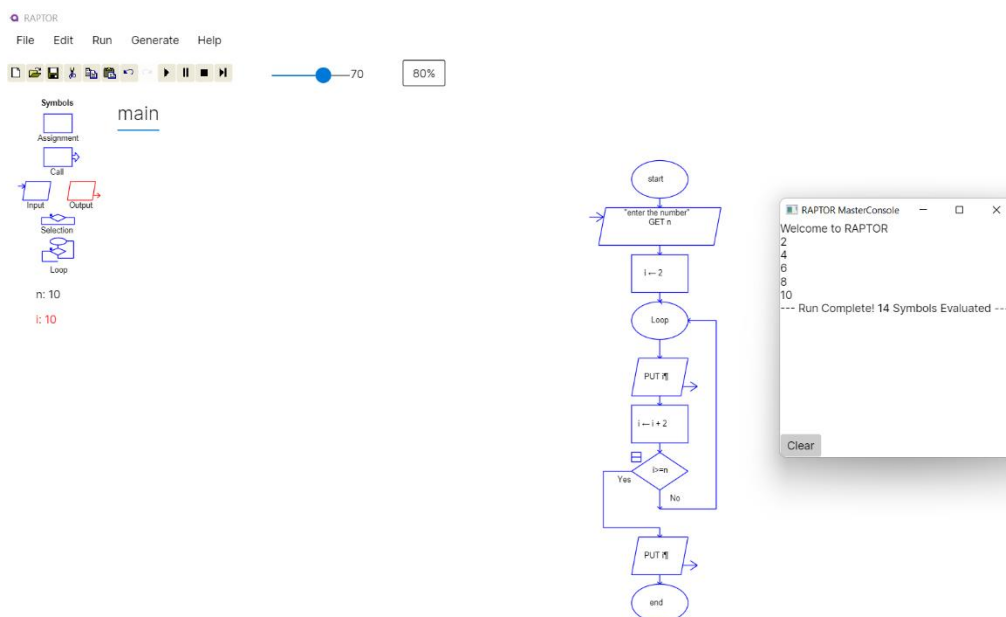
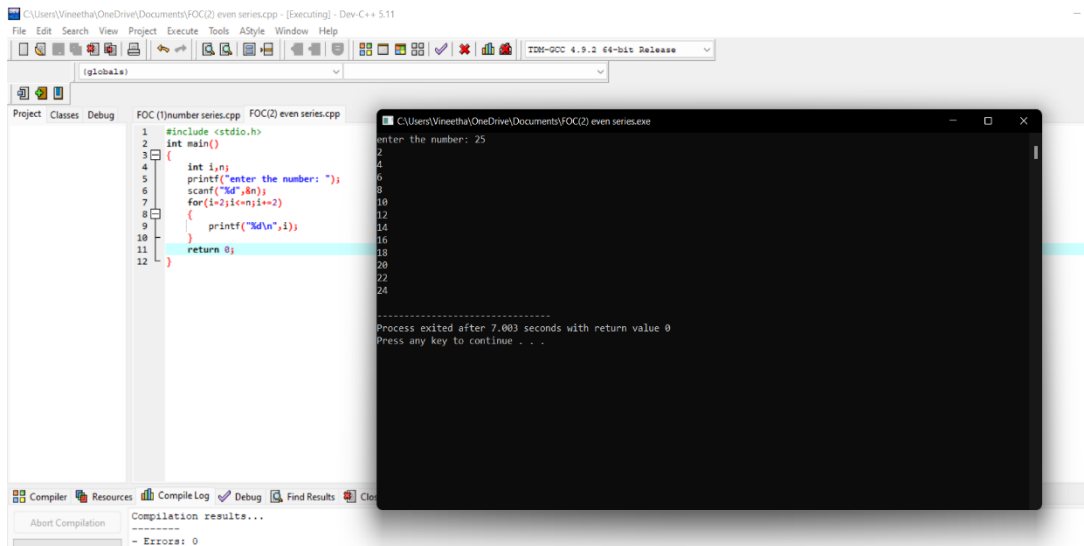
Compilation results...

- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\Vineetha\OneDrive\Documents\FOC (1)number series.exe
- Output Size: 128.1259765625 KiB
- Compilation Time: 0.30s

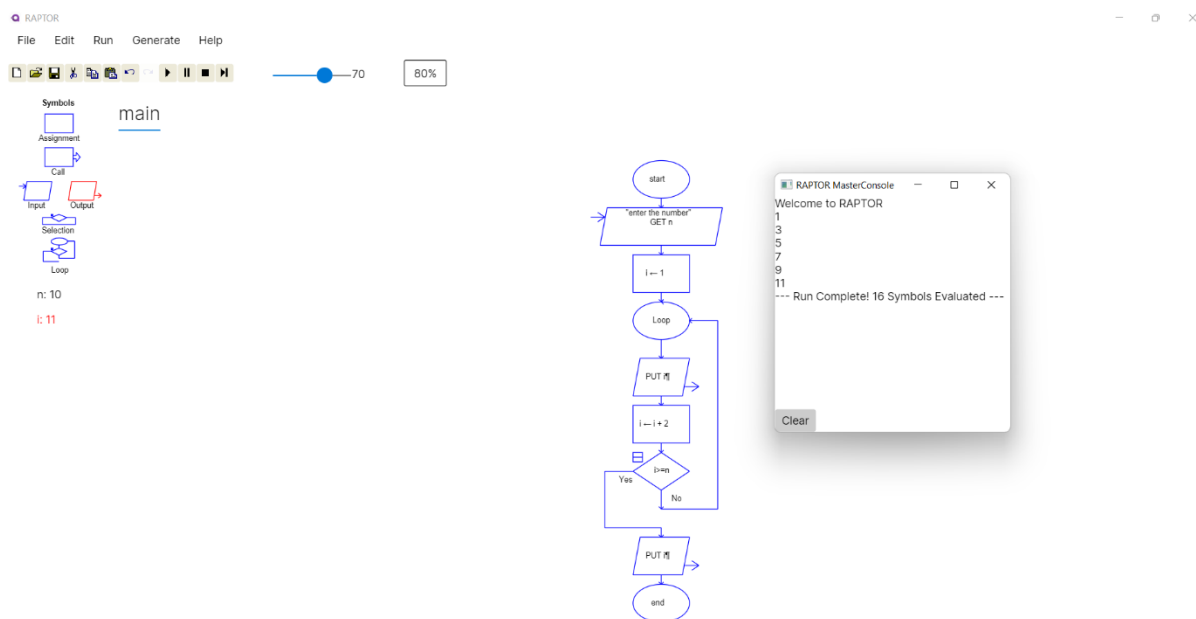
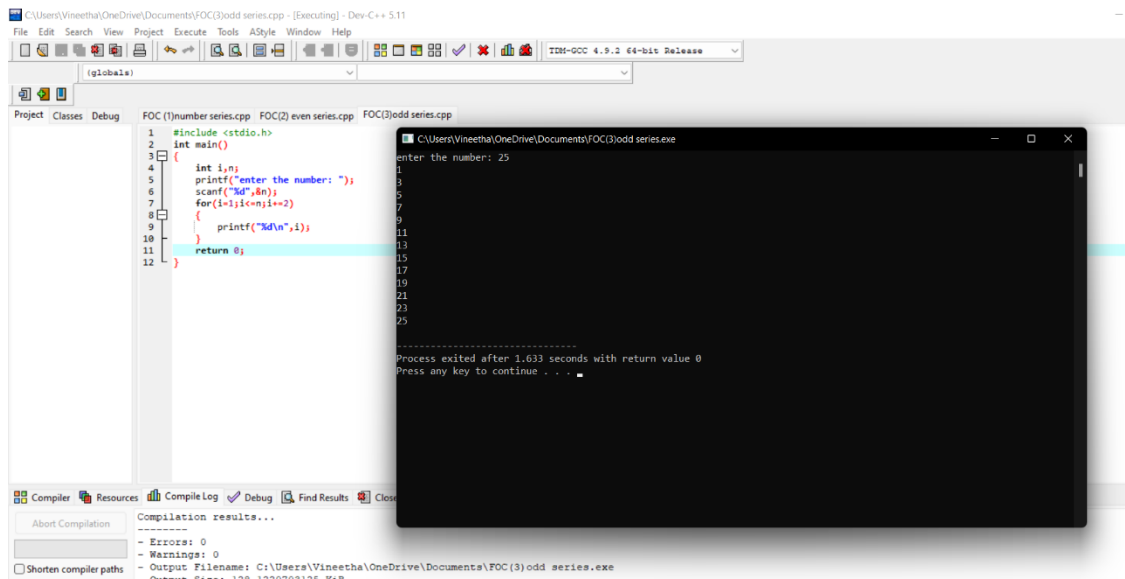
Process exited after 3.264 seconds with return value 0



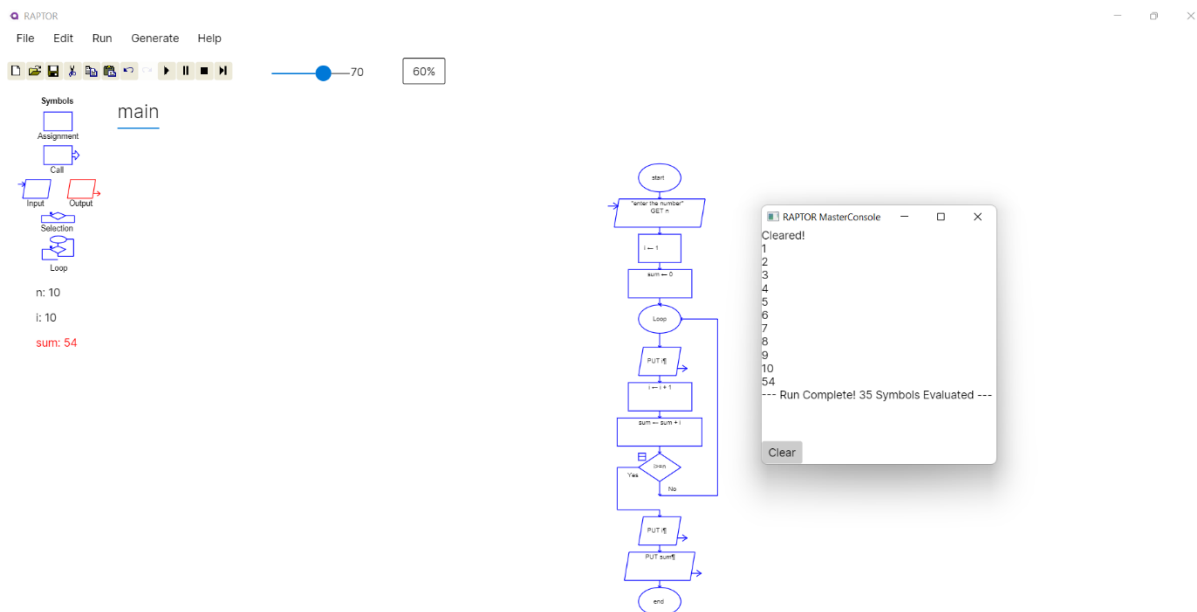
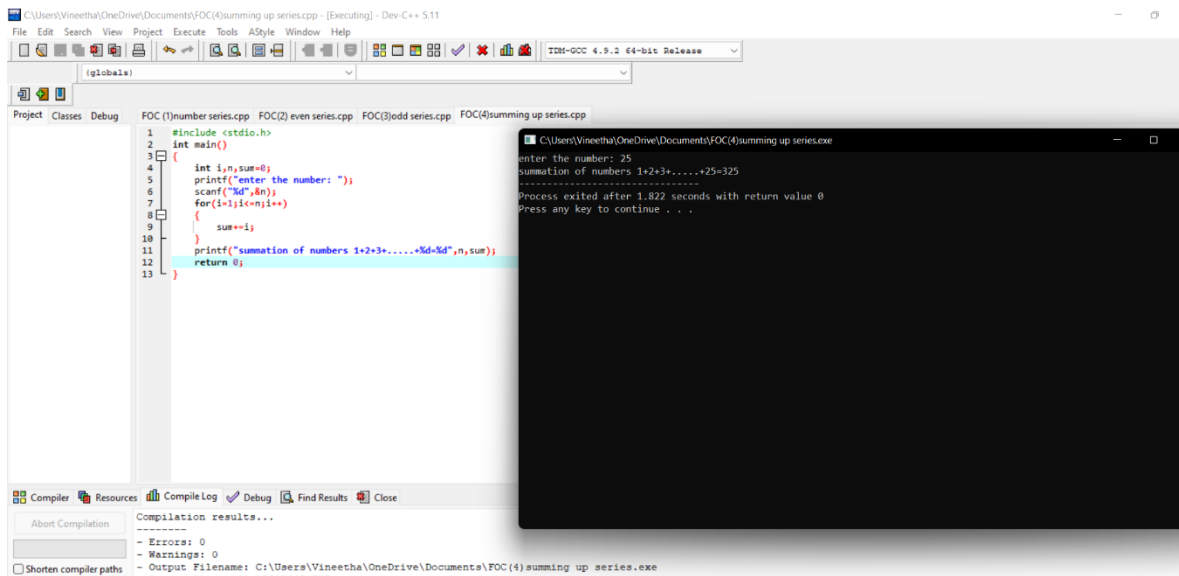
2. Generation of even number series 2, 4, 6,n



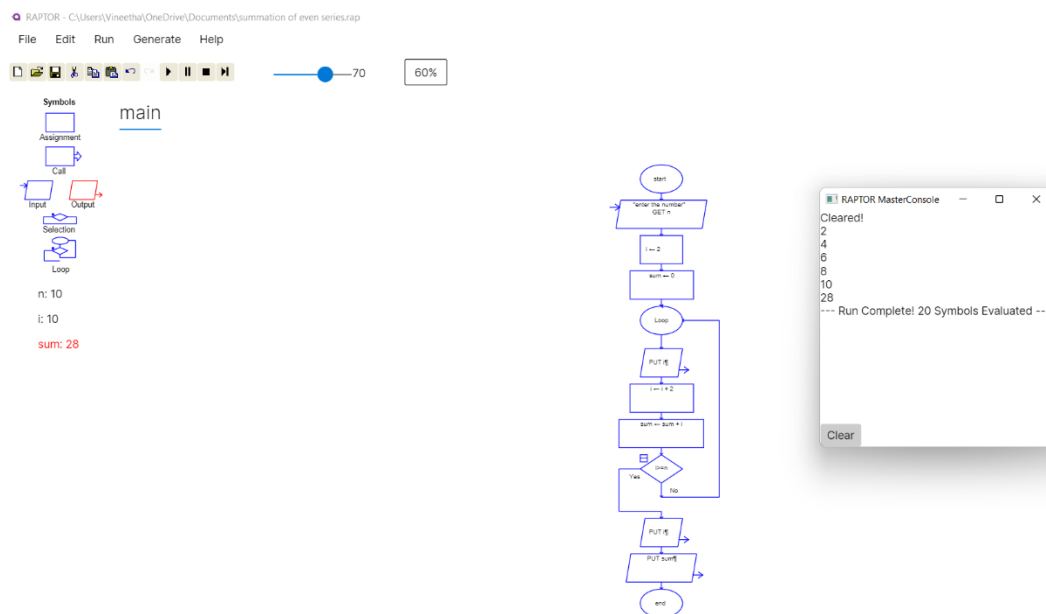
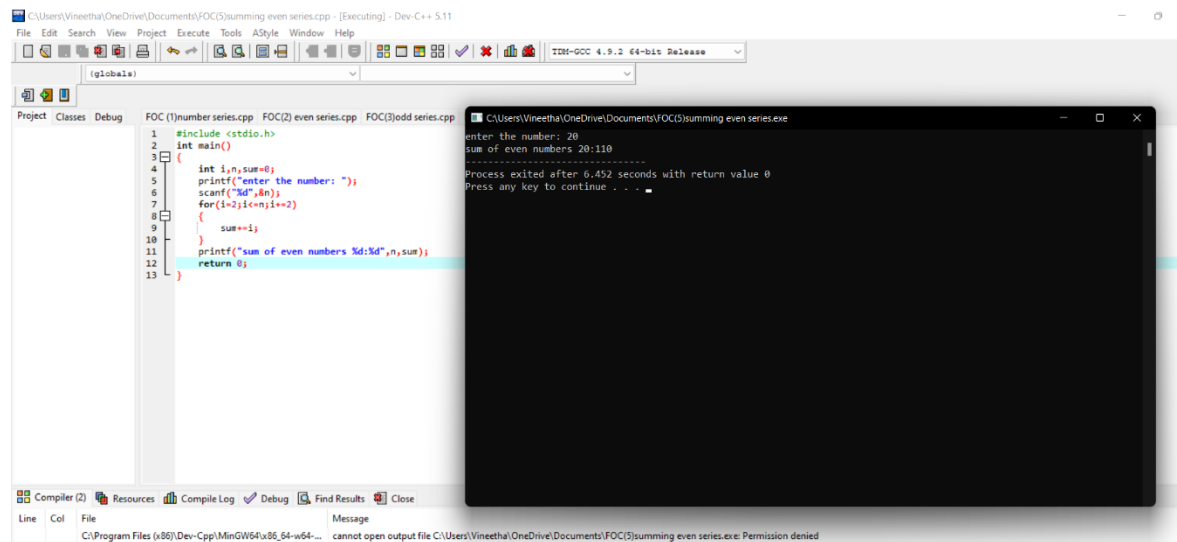
3. Generation of ODD number series 1, 3, 5,n



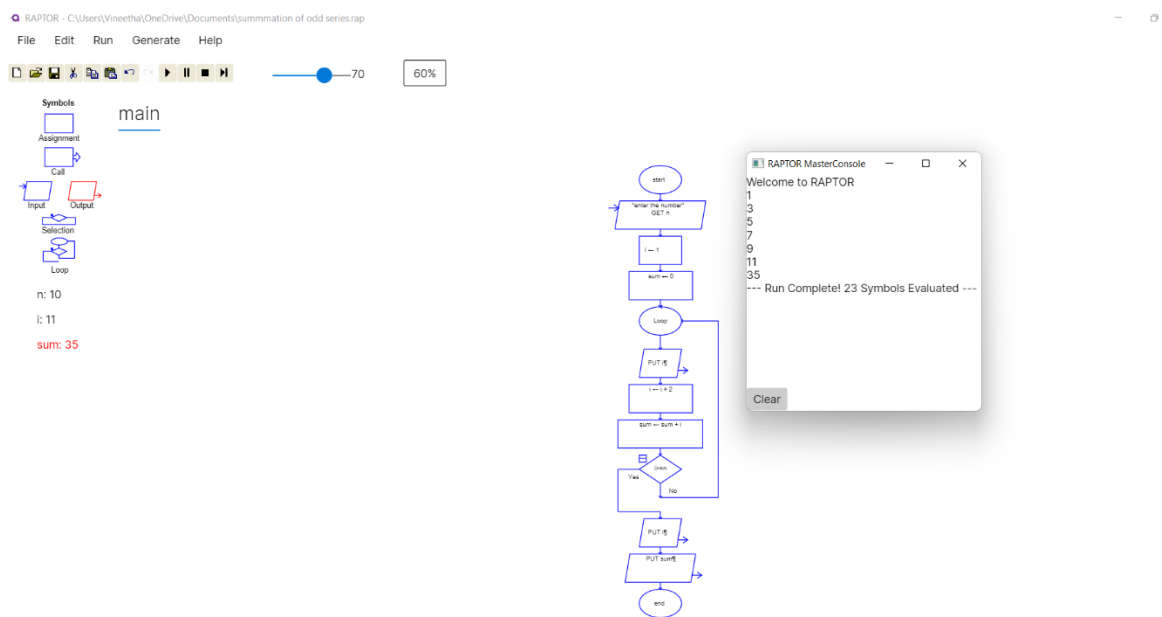
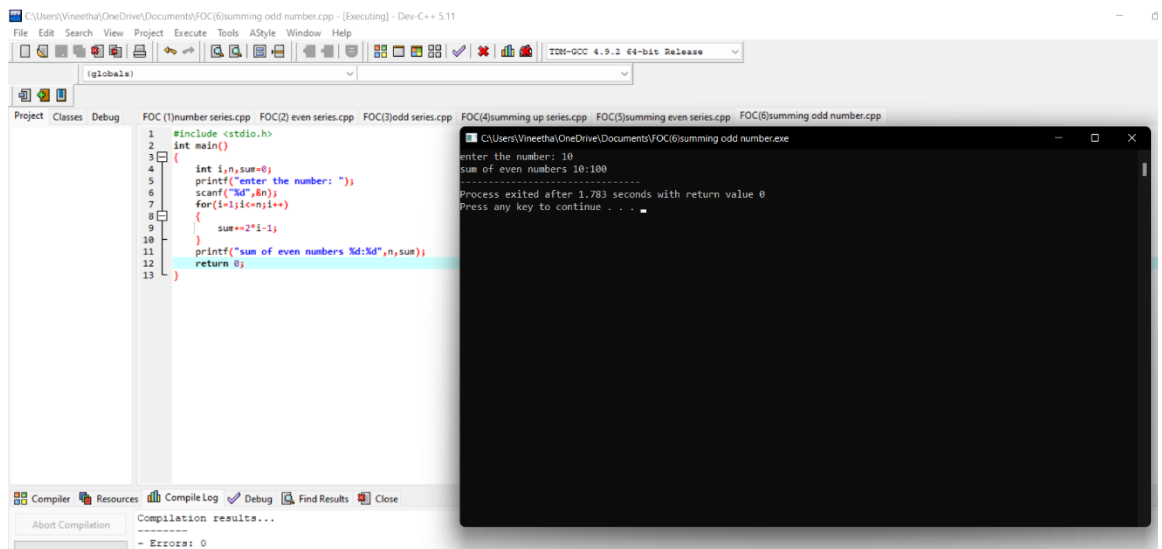
4. Summing up series $1 + 2 + 3 + 4 + \dots + n$



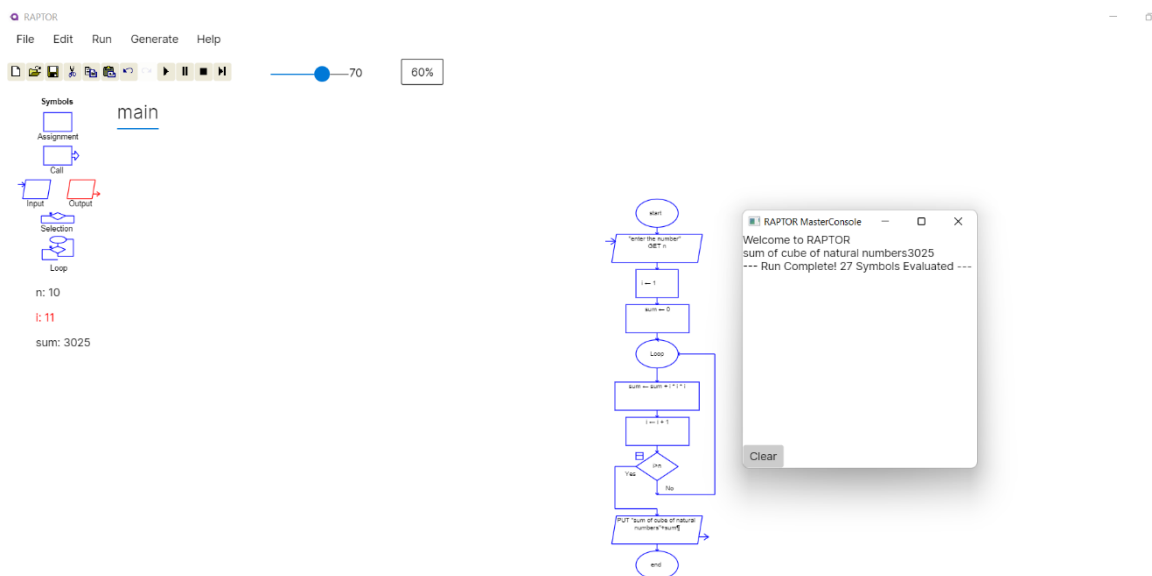
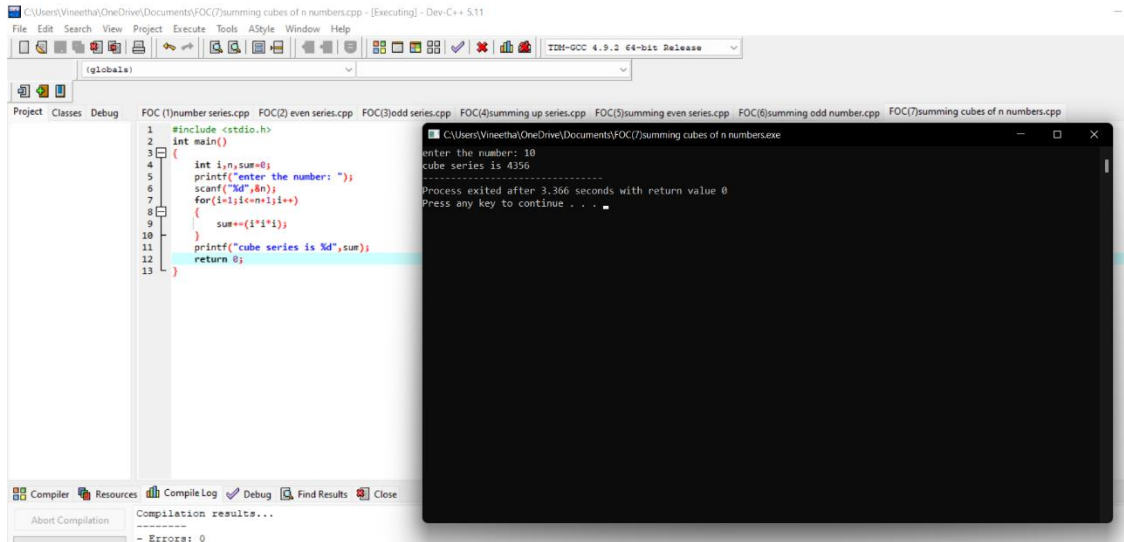
5. Summing up Even Number series



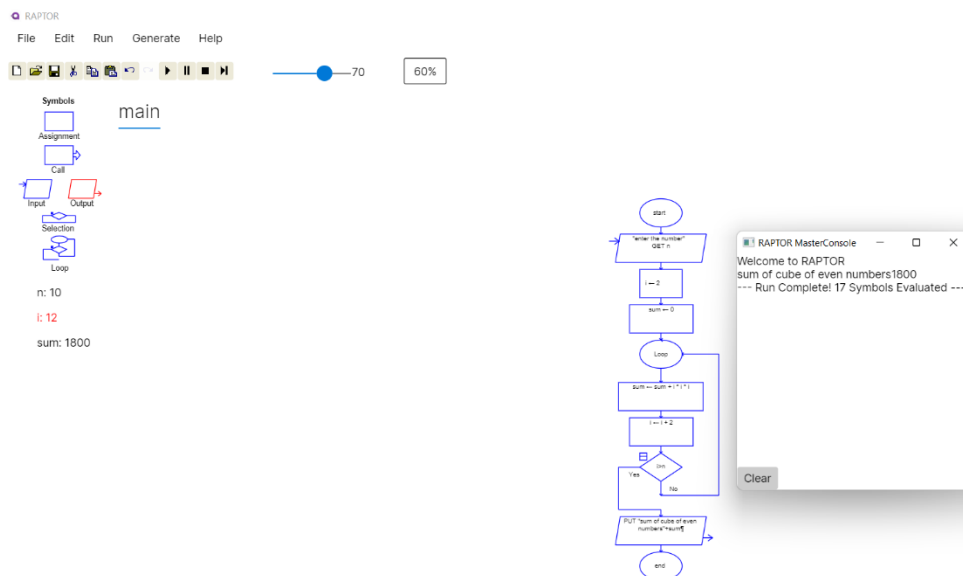
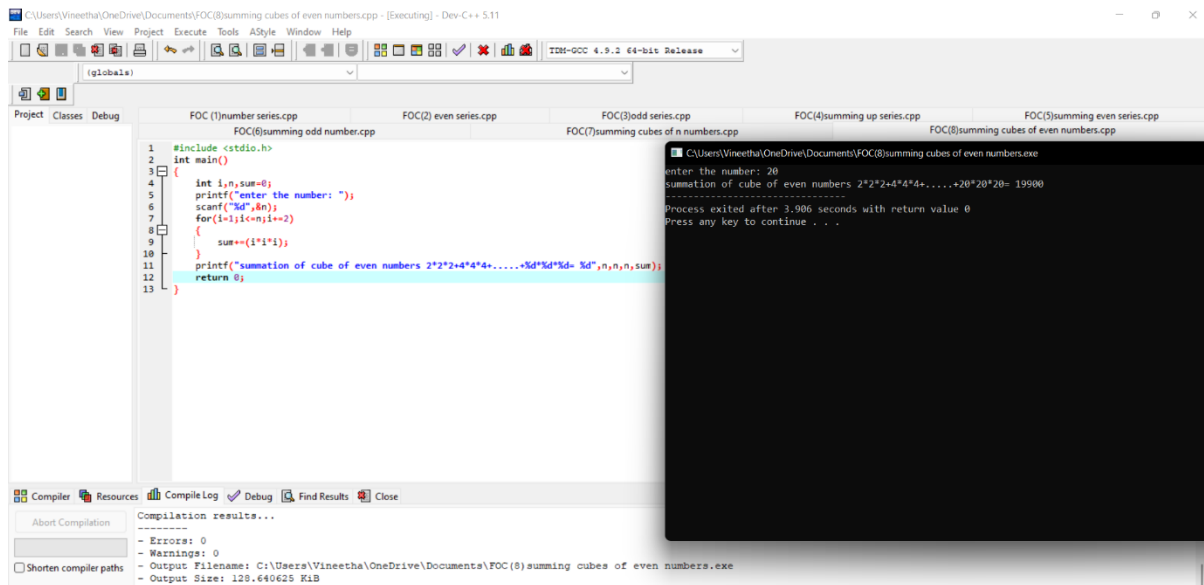
6. Summing up ODDNumber series



7. Summing up cubes of n numbers



8. Summing up Cubes of Even Number series



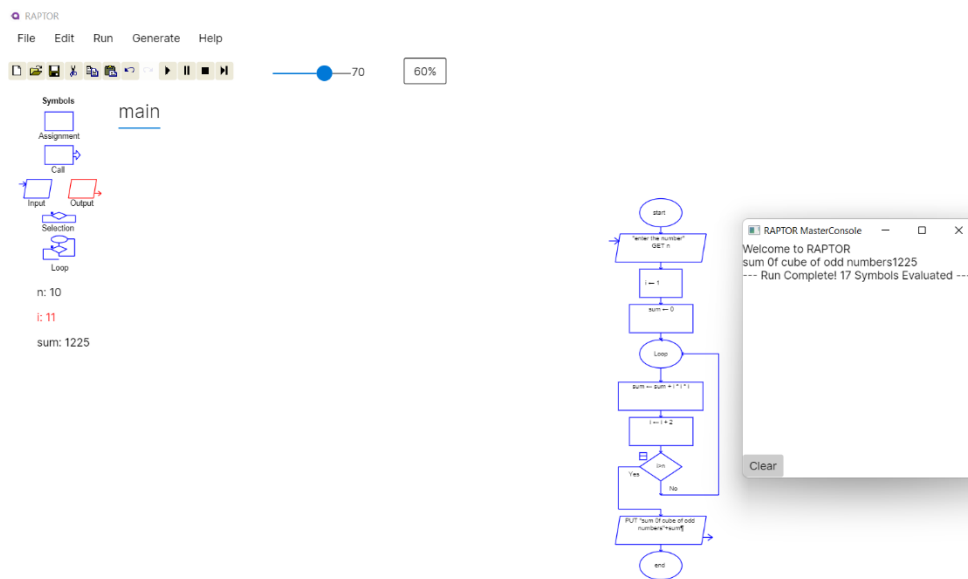
9. Summing up Cubes of ODD Number series

The screenshot shows a C++ IDE with the following code in `FOC(9)summing cubes of odd numbers.cpp`:

```
1 #include <stdio.h>
2 int main()
3 {
4     int i,n,sum=0;
5     printf("enter the number: ");
6     scanf("%d",&n);
7     for(i=1;i<=n;i+=2)
8     {
9         sum+=(i*i*i);
10    }
11    printf("summation of cube of odd numbers 1*1+3*3+3*3+.....+%d*%d*%d= %d",n,n,n,sum);
12    return 0;
13 }
```

The execution output window shows:

```
enter the number: 20
summation of cube of odd numbers 1*1+3*3+3*3+.....+20*20*20= 19900
Process exited after 1.862 seconds with return value 0
Press any key to continue . . .
```



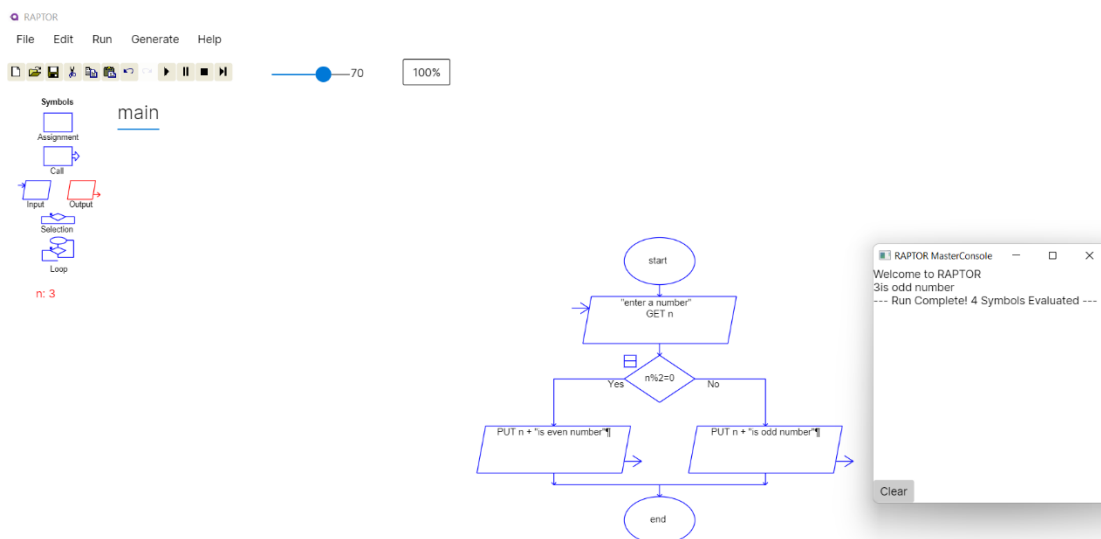
10. Finding whether the given integer is odd or even

The screenshot shows a C++ IDE with the following code in `FOC(10)even or odd.cpp`:

```
1 #include <stdio.h>
2 int main()
3 {
4     int n;
5     printf("enter the number: ");
6     scanf("%d",&n);
7     if(n%2==0)
8     {
9         printf("%d is even",n);
10    }
11    else
12    {
13        printf("%d is odd",n);
14    }
15    return 0;
16 }
```

The terminal window shows the execution output for the input 5:

```
enter the number: 5
5 is odd
Process exited after 4.938 seconds with return value 0
Press any key to continue . . .
```



11. Finding the given integer is positive or negative

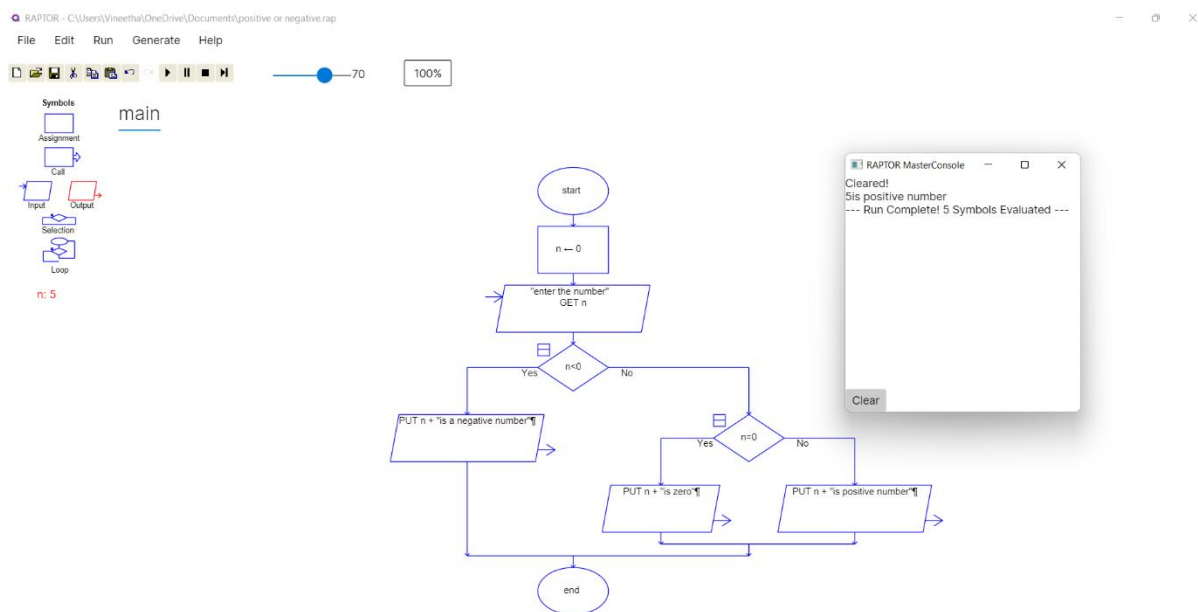
The screenshot shows a C++ IDE with the following code in the editor:

```
1 #include <stdio.h>
2
3 int main()
4 {
5     int n;
6     printf("enter the number: ");
7     scanf("%d",&n);
8     if(n>0)
9     {
10        printf("%d is positive",n);
11    }
12    else
13    {
14        printf("%d is negative",n);
15    }
16    return 0;
17 }
```

The output window shows the execution results:

```
enter the number: 11
11 is positive
Process exited after 5.073 seconds with return value 0
Press any key to continue . . .
```

The compilation results show 0 errors and 0 warnings.



12. Generation of Fibonacci series 0, 1, 1, 2, 3, 5, 8,n

The screenshot shows a C++ IDE with a project named 'FOC(12)fibonacci series.cpp'. The code is as follows:

```
1 #include <stdio.h>
2 int main()
3 {
4     int a=0,b=1,num,c;
5     printf("enter the number: ");
6     scanf("%d",&num);
7     for( int i=0;i<num;i++)
8     {
9         printf("%d ",a);
10        c=a+b;
11        a=b;
12        b=c;
13    }
14    return 0;
15 }
```

The output window shows the execution results for an input of 10:

```
enter the number: 10
0 1 1 2 3 5 8 13 21 34
Process exited after 1.136 seconds with return value 0
Press any key to continue . . .
```

