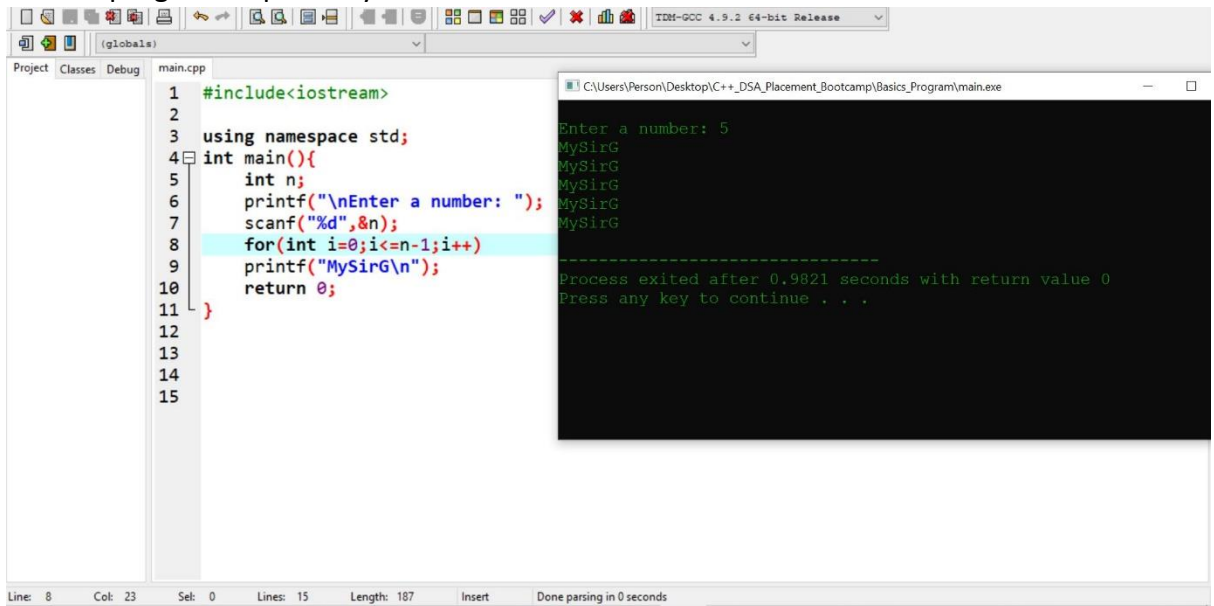


Assignment-05

1. Write a program to print MySirG N times on the screen



The screenshot shows a C++ IDE with a file named `main.cpp` and a terminal window. The code in `main.cpp` is as follows:

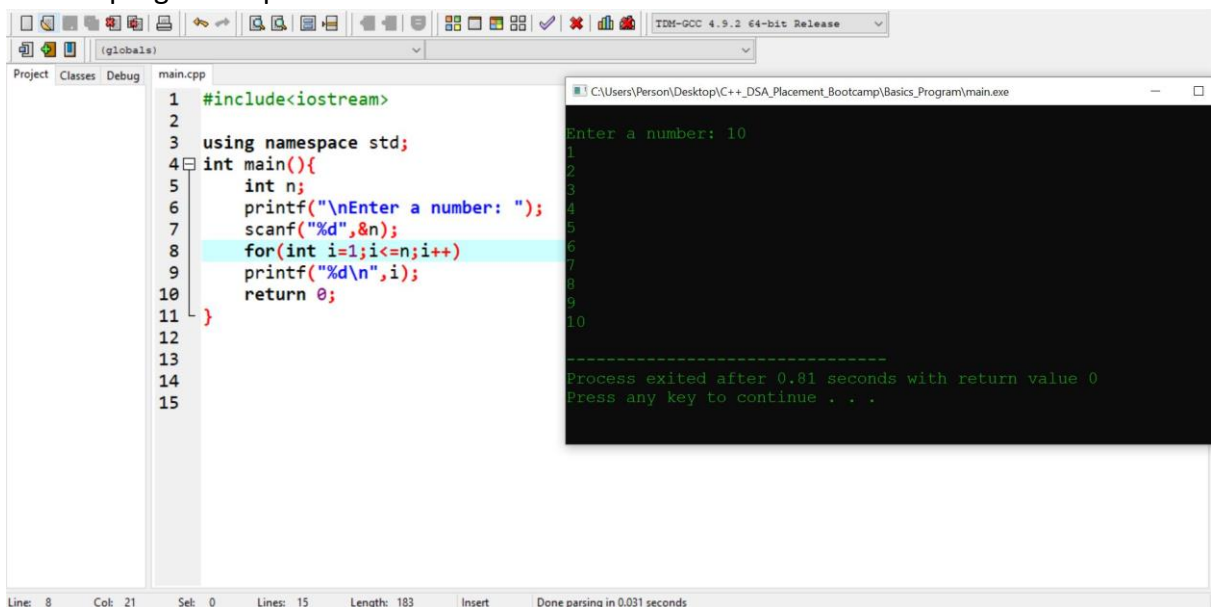
```
1 #include<iostream>
2
3 using namespace std;
4 int main(){
5     int n;
6     printf("\nEnter a number: ");
7     scanf("%d",&n);
8     for(int i=0;i<=n-1;i++)
9         printf("MySirG\n");
10    return 0;
11 }
```

The terminal window shows the output of the program:

```
C:\Users\Person\Desktop\C++_DSA_Placement_Bootcamp\Basics_Program\main.exe
Enter a number: 5
MySirG
MySirG
MySirG
MySirG
MySirG

-----
Process exited after 0.9821 seconds with return value 0
Press any key to continue . . .
```

2. Write a program to print the first N natural numbers.



The screenshot shows a C++ IDE with a file named `main.cpp` and a terminal window. The code in `main.cpp` is as follows:

```
1 #include<iostream>
2
3 using namespace std;
4 int main(){
5     int n;
6     printf("\nEnter a number: ");
7     scanf("%d",&n);
8     for(int i=1;i<=n;i++)
9         printf("%d\n",i);
10    return 0;
11 }
```

The terminal window shows the output of the program:

```
C:\Users\Person\Desktop\C++_DSA_Placement_Bootcamp\Basics_Program\main.exe
Enter a number: 10
1
2
3
4
5
6
7
8
9
10

-----
Process exited after 0.01 seconds with return value 0
Press any key to continue . . .
```

3. Write a program to print the first N natural numbers in reverse order

The screenshot shows a C++ IDE with a file named `main.cpp`. The code is as follows:

```
1 #include<iostream>
2
3 using namespace std;
4 int main(){
5     int n;
6     printf("\nEnter a number: ");
7     scanf("%d",&n);
8     for(int i=n;i>=1;i--)
9         printf("%d\n",i);
10    return 0;
11 }
```

The output window shows the execution results:

```
Enter a number: 10
10
9
8
7
6
5
4
3
2
1

-----
Process exited after 1.443 seconds with return value 0
Press any key to continue . . .
```

4. Write a program to print the first N odd natural numbers

The screenshot shows a C++ IDE with a file named `main.cpp`. The code is as follows:

```
1 #include<iostream>
2
3 using namespace std;
4 int main(){
5     int n;
6     printf("\nEnter a number: ");
7     scanf("%d",&n);
8     for(int i=1;i<=n;i++)
9         if(i%2!=0)
10            printf("%d\n",i);
11    return 0;
12 }
```

The output window shows the execution results:

```
Enter a number: 10
1
3
5
7
9

-----
Process exited after 2.073 seconds with return value 0
Press any key to continue . . .
```

5. Write a program to print the first N odd natural numbers in reverse order.

The screenshot shows a C++ IDE with a file named `main.cpp`. The code is as follows:

```
1 #include<iostream>
2
3 using namespace std;
4 int main(){
5     int n;
6     printf("\nEnter a number: ");
7     scanf("%d",&n);
8     for(int i=n;i>=1;i--)
9         if(i%2!=0)
10            printf("%d\n",i);
11     return 0;
12 }
```

The code is compiled and executed. The output window shows the following:

```
Enter a number: 10
9
7
5
3
1
-----
Process exited after 0.7326 seconds with return value 0
Press any key to continue . . .
```

6. Write a program to print the first N even natural numbers

The screenshot shows a C++ IDE with a file named `main.cpp`. The code is as follows:

```
1 #include<iostream>
2
3 using namespace std;
4 int main(){
5     int n;
6     printf("\nEnter a number: ");
7     scanf("%d",&n);
8     for(int i=1;i<=n;i++)
9         if(i%2==0)
10            printf("%d\n",i);
11     return 0;
12 }
```

The code is compiled and executed. The output window shows the following:

```
Enter a number: 10
2
4
6
8
10
-----
Process exited after 1.026 seconds with return value 0
Press any key to continue . . .
```

7. Write a program to print the first N even natural numbers in reverse order

The screenshot shows a C++ IDE with a file named `main.cpp`. The code is as follows:

```
1 #include<iostream>
2
3 using namespace std;
4 int main(){
5     int n;
6     printf("\nEnter a number: ");
7     scanf("%d",&n);
8     for(int i=n;i>=1;i--)
9         if(i%2==0)
10            printf("%d\n",i);
11     return 0;
12 }
```

The output window shows the execution results:

```
Enter a number: 20
20
18
16
14
12
10
8
6
4
2
-----
Process exited after 2.116 seconds with return value 0
Press any key to continue . . .
```

The status bar at the bottom indicates: Line: 8, Col: 21, Sel: 0, Lines: 16, Length: 196, Insert, Done parsing in 0.015 seconds.

8. Write a program to print squares of the first N natural numbers

The screenshot shows a C++ IDE with a file named `main.cpp`. The code is as follows:

```
1 #include<iostream>
2
3 using namespace std;
4 int main(){
5     int n;
6     printf("\nEnter a number: ");
7     scanf("%d",&n);
8     for(int i=1;i<=n;i++)
9         printf("%d=%d\n",i,i*i);
10     return 0;
11 }
```

The output window shows the execution results:

```
Enter a number: 15
1=1
2=4
3=9
4=16
5=25
6=36
7=49
8=64
9=81
10=100
11=121
12=144
13=169
14=196
15=225
```

The status bar at the bottom indicates: Line: 9, Col: 27, Sel: 0, Lines: 15, Length: 190, Insert, Done parsing in 0.031 seconds.

9. Write a program to print cubes of the first N natural numbers

The screenshot shows a C++ IDE with a source file named `main.cpp` and a terminal window. The source code is as follows:

```
1 #include<iostream>
2
3 using namespace std;
4 int main(){
5     int n;
6     printf("\nEnter a number: ");
7     scanf("%d",&n);
8     for(int i=1;i<=n;i++){
9         printf("%d=%d\n",i,i*i);
10    }
11    return 0;
12 }
13
14
15
```

The terminal window shows the output of the program after entering the number 15:

```
Enter a number: 15
1=1
2=8
3=27
4=64
5=125
6=216
7=343
8=512
9=729
10=1000
11=1331
12=1728
13=2197
14=2744
15=3375
```

The status bar at the bottom indicates: Line: 9, Col: 29, Sel: 0, Lines: 15, Length: 192, Insert, Done parsing in 0 seconds.

10. Write a program to print a table of N.

The screenshot shows a C++ IDE with a source file named `main.cpp` and a terminal window. The source code is as follows:

```
1 #include<iostream>
2
3 using namespace std;
4 int main(){
5     int n;
6     printf("\nEnter a number: ");
7     scanf("%d",&n);
8     for(int i=1;i<=10;i++){
9         printf("%d\n",i*n);
10    }
11    return 0;
12 }
13
14
15
```

The terminal window shows the output of the program after entering the number 21:

```
Enter a number: 21
21
42
63
84
105
126
147
168
189
210
-----
Process exited after 0.6976 seconds with return value 0
Press any key to continue . . .
```

The status bar at the bottom indicates: Line: 8, Col: 22, Sel: 0, Lines: 15, Length: 186, Insert, Done parsing in 0.016 seconds.