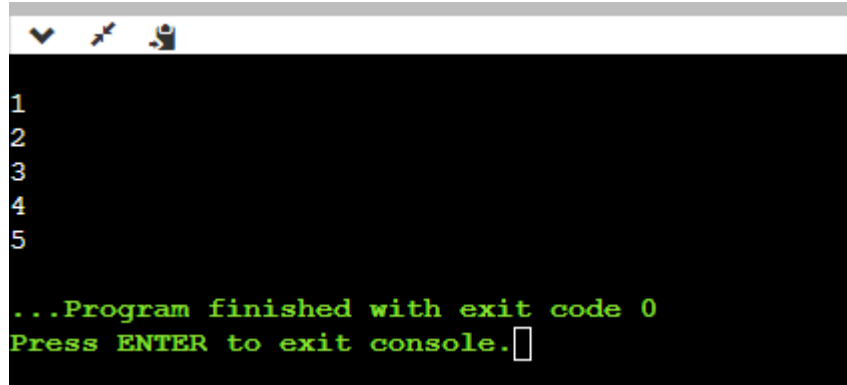


NAME :Duaa Dara

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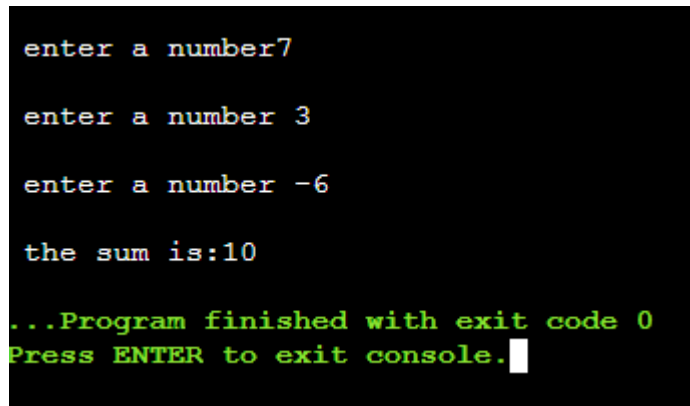
While loop:



```
1
2
3
4
5

...Program finished with exit code 0
Press ENTER to exit console.
```

While loop:



```
enter a number7

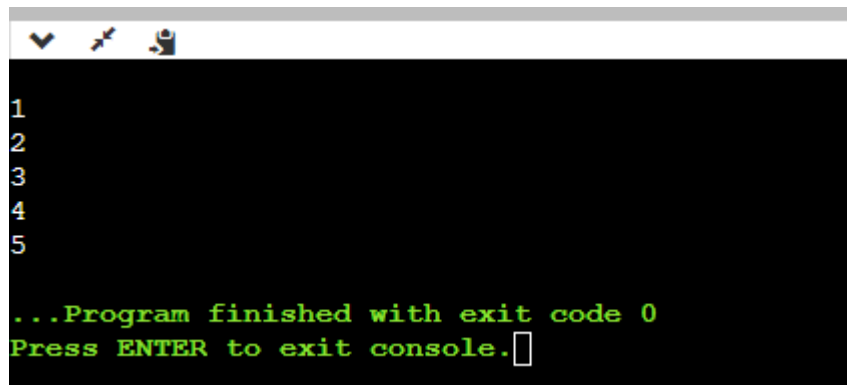
enter a number 3

enter a number -6

the sum is:10

...Program finished with exit code 0
Press ENTER to exit console.
```

Do while:



```
1
2
3
4
5

...Program finished with exit code 0
Press ENTER to exit console.
```

For loop:

12345

For loop:

```
hello world
hello world
hello world
hello world
hello world

...Program finished with exit code 0
Press ENTER to exit console.
```

LAB TASK :

Factorial by for loop:

```
main.cpp
1  #include <iostream>
2  using namespace std;
3  int main()
4  {
5      int n,fact=1;
6      cin>>n;
7      for(int i=1;i<=n;i++){
8          fact=fact*i;
9      }
10  cout<<fact;
11  return 0;
12  }
```

```
5
120

...Program finished with exit code 0
Press ENTER to exit console.
```

## Multiplication table of 29:

```
main.cpp
1  #include <iostream>
2  using namespace std;
3  int main()
4  {
5      int z, n=29;
6
7      for(int i=1;i<=10;i++){
8          z=n*i;
9          cout<<"\n";
10         cout<<z;
11     }
12
13
14     return 0;
15 }
16
```

```

29
58
87
116
145
174
203
232
261
290

...Program finished with exit code 0
Press ENTER to exit console.
```

## Multiplication table of 24:

```
main.cpp
1  #include <iostream>
2  using namespace std;
3  int main()
4  {
5      int z, n=24;
6
7      for(int i=1;i<=10;i++){
8          z=n*i;
9          cout<<"\n";
10         cout<<z;
11     }
12
13     return 0;
14 }
15
16
17
```

```

24
48
72
96
120
144
168
192
216
240

...Program finished with exit code 0
Press ENTER to exit console.
```

## Multiplication table of 50:

main.cpp


```
1  #include <iostream>
2  using namespace std;
3  int main()
4  {
5      int z, n=50;
6
7      for(int i=1;i<=10;i++){
8          z=n*i;
9          cout<<"\n";
10         cout<<z;
11     }
12
13
14     return 0;
15 }
16
17
```

```
50
100
150
200
250
300
350
400
450
500

...Program finished with exit code 0
Press ENTER to exit console.
```

### Average of 10 numbers:

```
1  #include <iostream>
2  using namespace std;
3  int main()
4  {
5      int z,n,avg;
6
7      for(int i;i<10;i++){
8          cin>>z;
9          n=z+n;
10         avg=n/10;
11     }
12     cout<<"\n "<<avg;
13     return 0;
14 }
15
16
```



```
5
5
6
8
4
5
8
7
2
2

5

...Program finished with exit code 0
Press ENTER to exit console.
```

## Program to find out max min count :

```
main.cpp
1  #include <iostream>
2  #include <climits>
3  using namespace std;
4
5  int main() {
6      int num;
7      int count = 0;
8      int max = INT_MIN;
9      int min = INT_MAX;
10     double sum = 0.0;
11     cout << "\nEnter positive integers (-1 to terminate):" ;
12     while (true)
13     {
14         cout << "Enter an integer: ";
15         cin >> num;
16         if (num == -1)
17             break;
18         if (num < 0)
19         {
20             cout << "\nenter a positive integer." << endl;
21             continue;
22         }
23         count++;
24         sum += num;
25         if (num > max)
26         {
27             max = num;
28         }
29         if (num < min)
30         {
31             min = num;
32         }
33     }
34     if (count > 0)
35     {
36         double average = sum / count;
37         cout << "\nCount of positive integers: " << count ;
38         cout << "\nMax value: " << max ;
39         cout << "\nMin value: " << min;
40         cout << "\nAverage value: " << average ;
41     } else
42     {
43         cout << "\nNo positive integers was entered" ;
44     }
45     return 0;
46 }
```

## Output:

```
Enter positive integers (-1 to terminate):Enter an integer: 23
Enter an integer: 3
Enter an integer: 4
Enter an integer: 5
Enter an integer: 46
Enter an integer: 7
Enter an integer: 6
Enter an integer: 9
Enter an integer: 6
Enter an integer: 6-1
Enter an integer:
Count of positive integers: 10
Max value: 46
Min value: 3
Average value: 11.5

...Program finished with exit code 0
Press ENTER to exit console.□
```