

Name: Waad

Assignment 1

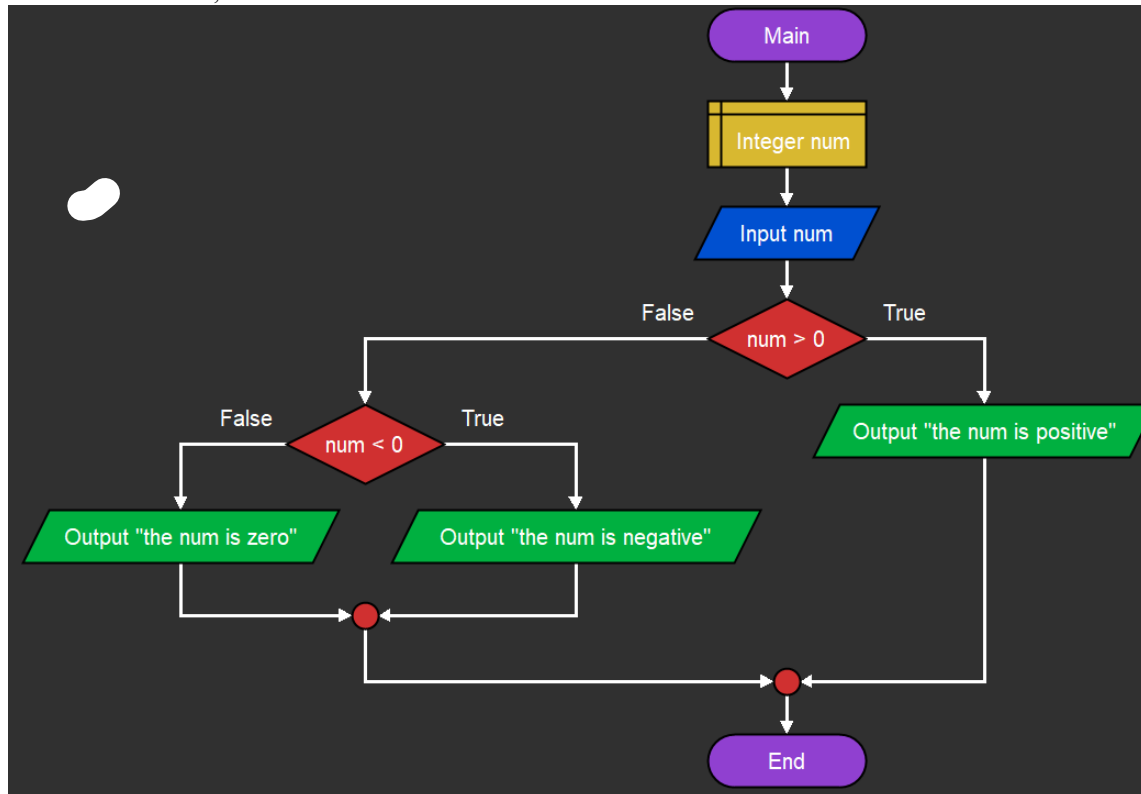
Computer programming 1

Due date: Sunday 17 October at 11:30 PM

Draw a flowchart, write C++ code, and show the output result for the following:

- 1) A program that reads an integers number then print if the number is positive, negative, or zero.

Flowchart;



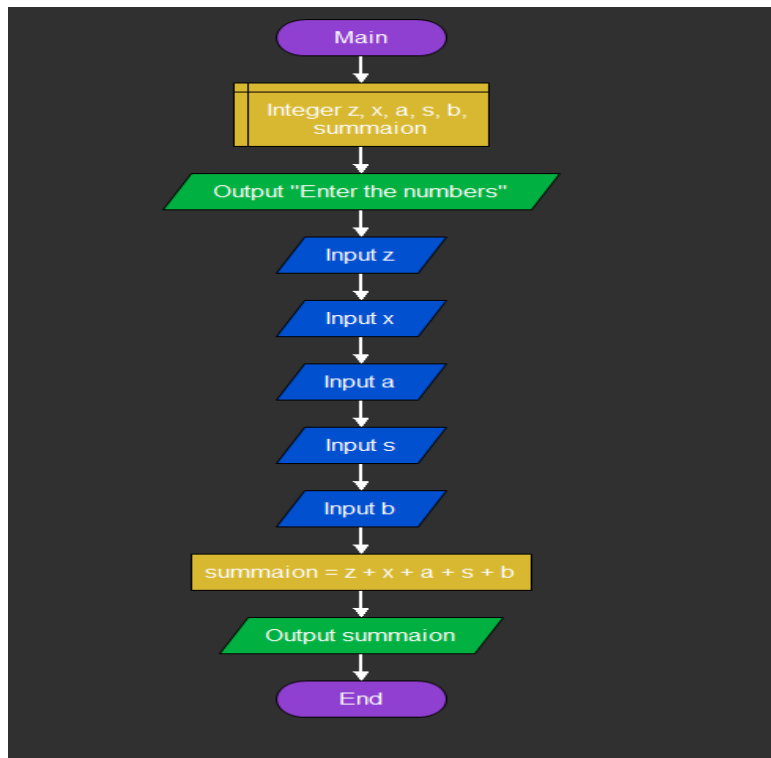
C++ code;

```
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23
/*
 *
 */
#include<iostream>
using namespace std;
int main()
{
    int num1;
    cout << "Enter the number \n" << endl;
    cin>>num1;
    if(num1>0){
        cout<<num1<<" is a positive number \n";
    }
    else if(num1<0){
        cout<<num1<<" is a Negative number \n";
    }
    else{
        cout<<"You entered Zero";
    }
    return 0;
}
```

```
-9
-9 is a Negative number

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

- 2) A program that reads 5 integer numbers then print the summation of these numbers.
Flowchart;

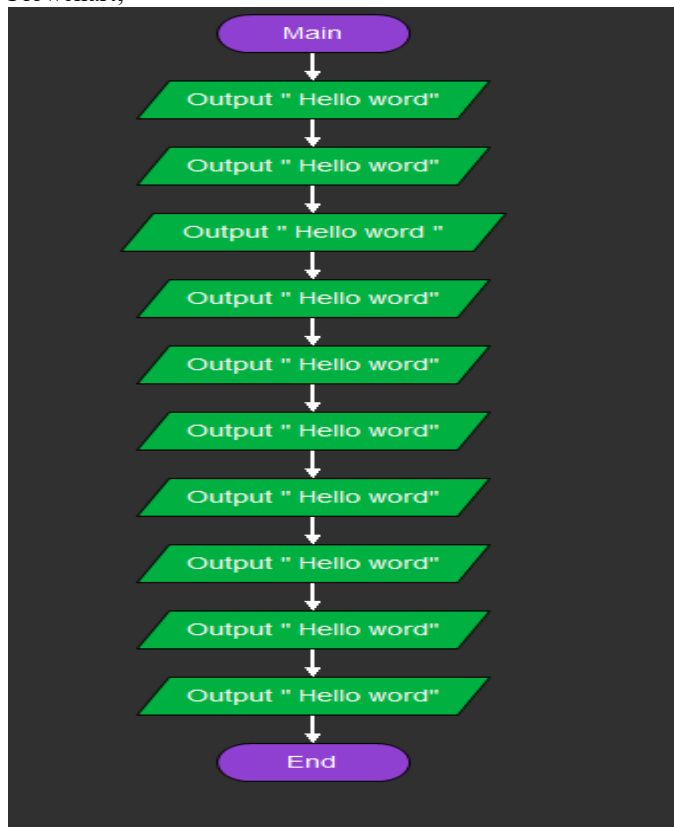


C++ code;

```
1- /*
2-  *
3-  */
4- #include <iostream>
5- using namespace std;
6- int main()
7- {
8-     int z, x, a, s, b;
9-     cout << "Enter thr numbers";
10-    cout << endl;
11-    cin >> z;
12-    cin >> x;
13-    cin >> a;
14-    cin >> s;
15-    cin >> b;
16-    cout << " the summation of numbers = "<< z + x + a + s + b;
17-    return 0;
18- }
```

The screenshot shows a C++ IDE with the source code in a file named 'main.cpp'. The code declares five integers (z, x, a, s, b) and a variable 'summaion' (though the variable name in the code is not explicitly shown, it's implied by the output). It prompts the user to 'Enter thr numbers' and reads five integers. It then calculates the summation and prints the result. The output window shows the execution: 'Enter thr numbers', followed by five inputs (5, 5, 5, 5, 5), and the final output 'the summation of numbers = 25'. The program finished with exit code 0.

- 3) A program that prints "Hello World" ten times, each sentence in a new line.
Flowchart;



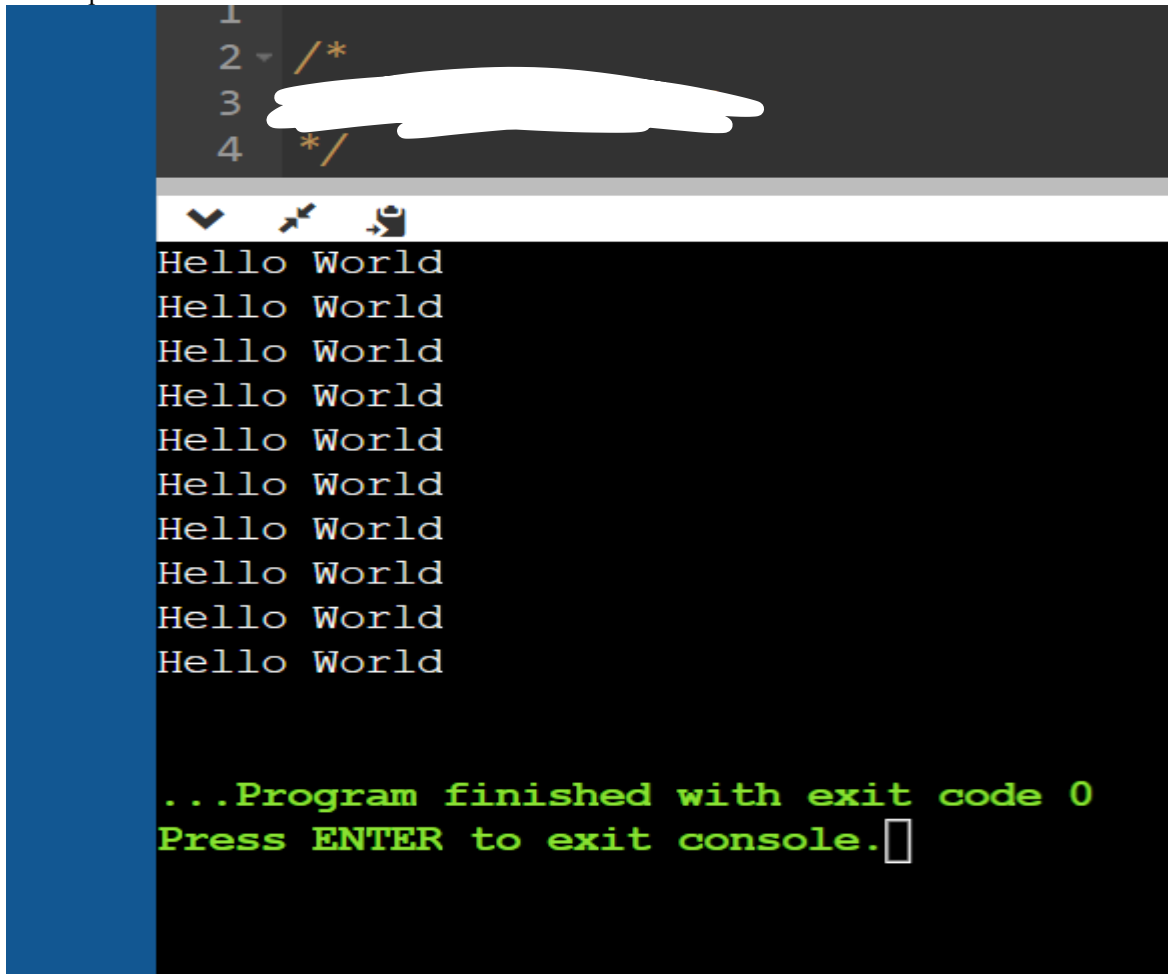
C++;

```
1  /*
2  */
3  /*
4  */
5  #include <iostream>
6  using namespace std;
7  int main()
8  {
9      cout << "Hello World \n";
10     cout << "Hello World \n";
11     cout << "Hello World \n";
12     cout << "Hello World \n";
13     cout << "Hello World \n";
14     cout << "Hello World \n";
15     cout << "Hello World \n";
16     cout << "Hello World \n";
17     cout << "Hello World \n";
18     cout << "Hello World \n";
19     return 0;
20 }
21
```

```
✓ ↩ ↲
Hello World
Hello World
Hello World

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

The output:

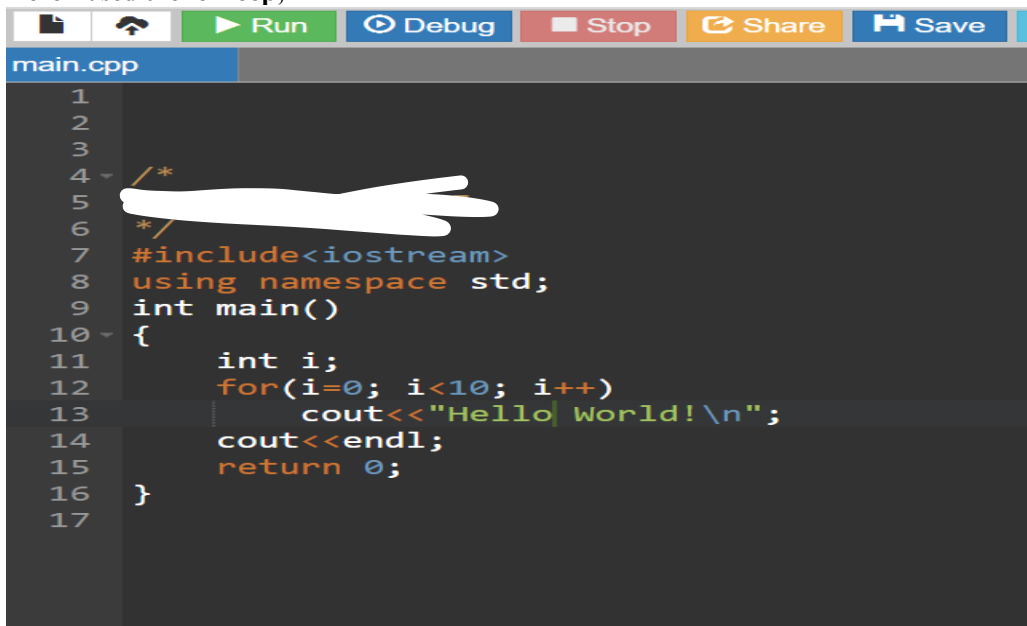


```
1
2  /*
3  [redacted]
4  */

Hello World
Hello World
Hello World
Hello World
Hello World
Hello World
Hello World
Hello World
Hello World
Hello World

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

Here I used the for loop;



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

Thank you.

