C++ Assignments 2 | Week1

1. Find the output for this code. Let input:- 2 3 6

```cpp
#include <iostream>
using namespace std;
 int main () {
int x;
 cout << "Enter first number\n";
 cin >> x;                                              // user will give 'x' a value.
int y, m;
cout << "Enter second number and value for taking modulus\n";
 cin >> y >> m;                          // user will give 'y' a value.
int Z = (x * y) % m;
cout << "Output is: " << Z;
 }
```

Output

"Enter first number

Output is : 0

2. Find the output for this code. Let input:- 3 2

```cpp
#include <iostream>
using namespace std;
int main() {
 int x; cout<<"Enter first number\n";
cin>>x;                                // user will give 'x' a value.
int y;
cout<<"Enter second number\n";
```

```
cin>>y;

cout<<(x!=y)<<" "<<(x>=y)

}
```

Enter first number

3

Enter second number

2

1 1

3. Find the output for this code. Let input:- 2 3
```
#include <iostream>
 using namespace std;
 int main() {
 int x,y;
 cin>>x>>y;
 x+=y;
 x-=y;
 x%=y;
 cout<<x;
 }
```
Output
2
3
2

4. WAP for finding the volume of the cylinder by taking radius and height as input
```
#include <iostream>
using namespace std;

const double PI = 3.14159;

double calculateCylinderVolume(double radius, double height) {
   return PI * radius * radius * height;
}

int main() {
   double radius, height;

   cout << "Enter the radius of the cylinder: ";
   cin >> radius;

   cout << "Enter the height of the cylinder: ";
   cin >> height;
```

```
        double volume = calculateCylinderVolume(radius, height);

        cout << "The volume of the cylinder is: " << volume << endl;

        return 0;
```
output

```
Enter the radius of the cylinder:6
Enter the height of the cylinder:8
The volume of the cylinder is: 904.778
```

5. WAP to find the difference between ASCII of two characters ,take them as input

```cpp
#include <iostream>

using namespace std;


int main() {
    char char1, char2;


    // Input first character

    cout << "Enter the first character: ";

    cin >> char1;


    // Input second character

    cout << "Enter the second character: ";

    cin >> char2;


    // Calculate the ASCII difference

    int asciiDiff = int(char1) - int(char2);


    // Output the result

    cout << "The difference between the ASCII values of " << char1 << " and " << char2 << " is: " << asciiDiff << endl;


    return 0;
}
```

Enter the first character: a

Enter the second character: y

The difference between the ASCII values of a and y is: -24

6. Find the output of the below code

```
#include <iostream>
using namespace std;
 int main() {
 int i = ( 4 + 7 / 5 * 6 * 6+9 )% 100 ;
 cout<< i;
}
```
Output
49