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;

}
```

1.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; // user will give 'y' a value.
```

```
cout<<(x!=y)<<" "<<(x>=y);
}
```

2.output is:1 1

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

```cpp
#include <iostream>

using namespace std;

int main()
{
int x,y;
cin>>x>>y;
x+=y;
x-=y;
x%=y;
cout<<x;
}
```

Output is :-2

4. WAP for finding the volume of the cylinder by taking radius and height as input.

Code:-

```cpp
#include <iostream>

using namespace std;


int main() {

    // Declare variables to store radius and height

    double radius, height;



    // Prompt the user to enter the radius and height of the cylinder
```

```cpp
    cout << "Enter the radius of the cylinder: ";

    cin >> radius;

    cout << "Enter the height of the cylinder: ";

    cin >> height;


    // Calculate the volume of the cylinder

    double volume = 3.14159 * radius * radius * height;


    // Output the result

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


    return 0;

}
```

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

```cpp
code:-#include <iostream>

using namespace std;


int main() {

    // Declare variables to store the characters

    char char1, char2;
```

```cpp
    // Prompt the user to enter two characters

    cout << "Enter the first character: ";

    cin >> char1;

    cout << "Enter the second character: ";

    cin >> char2;



    // Calculate the difference between the ASCII values

    int ascii_diff = abs(int(char1) - int(char2));



    // Output the result

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



    return 0;

}
```

6. Find the output of the below code

```cpp
#include <iostream>

using namespace std;

int main()
{
int i = ( 4 + 7 / 5 * 6 * 6+9 )% 100 ;
cout<<i;
```

```
}
```

Output will be : 49.