



C++ Assignments 2 | Week1

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

```
#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;
}
```

• Enter - - - -
• $\frac{2}{x}$
• Enter - - - -
• $\frac{3}{y}$ $\frac{6}{m}$
• $Z = (2 * 3) \% 6$
 $6 \% 6 = 1$

L → R
same priority

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

```
#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);
}
```

• Enter - - - -
• $\frac{3}{x}$
• Enter - - - -
• $\frac{2}{y}$

$3 != 2$ space $3 >= 2$
True output = 1 True output = 1
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;
}
```

Right to left.

$$\begin{aligned} x &= x + 3 \rightarrow 5 \\ x &= x - 3 \rightarrow -1 \\ x &= x \% 3 \rightarrow 2 \end{aligned}$$

2

4. WAP for finding the volume of the cylinder by taking radius and height as input.
5. WAP to find the difference between ASCII of two characters ,take them as input .
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;
}
```

L→R

$$\begin{aligned} &7/5 * 6 * 6 \\ &1 * 6 * 6 \\ &6 * 6 = 36 \end{aligned}$$

$$4 + 36 + 9 = 49 \% 100 = 49$$

($\because 49 < 100$)

Note:- Please try to invest time doing the assignments which are necessary to build a strong foundation. Do not directly Copy Paste using Google or ChatGPT. Please use your brain 😊.