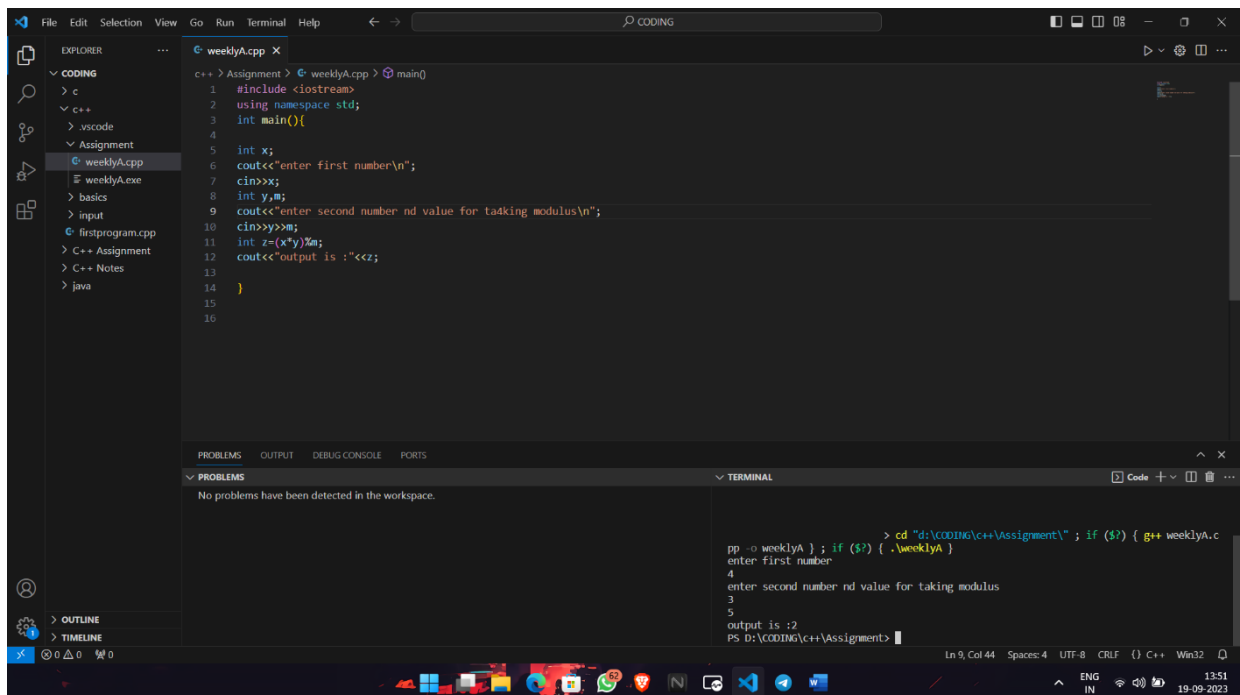


# Assignment -2

## C++

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;
}
```



The screenshot shows the Visual Studio Code interface. The Explorer pane on the left shows a project structure with folders for 'CODING', 'c', 'c++', 'vscode', 'Assignment', and files like 'weeklyA.cpp', 'weeklyA.exe', 'basics', 'input', 'firstprogram.cpp', 'C++ Assignment', 'C++ Notes', and 'java'. The main editor window displays the C++ code for 'weeklyA.cpp'. The code is as follows:

```
1 #include <iostream>
2 using namespace std;
3 int main()
4 {
5     int x;
6     cout<<"enter first number\n";
7     cin>>x;
8     int y,m;
9     cout<<"enter second number nd value for tadking modulus\n";
10    cin>>y>>m;
11    int z=(x*y)%m;
12    cout<<"output is : "<<z;
13
14 }
15
16
```

The bottom panel shows the 'TERMINAL' output, which displays the execution of the program with the input '2 3 6' and the resulting output '12'.

```
> cd "d:\CODING\c++\Assignment\" ; if ($?) { g++ weeklyA.c
pp -o weeklyA } ; if ($?) { .\weeklyA }
enter first number
4
enter second number nd value for taking modulus
3
5
output is :2
PS D:\CODING\c++\Assignment>
```

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);
}
```

```
}  
weeklyA.cpp X  
c++ > Assignment > weeklyA.cpp > main()  
1 #include <iostream>  
2 using namespace std;  
3 int main(){  
4  
5     int x;  
6     cout<<"Enter first number\n";  
7     cin>>x; // user will give 'x' a value.  
8     int y;  
9     cout<<"Enter second number\n";  
10    cin>>y; // user will give 'y' a value.  
11    cout<<(x!=y)<<" "<<(x==y);  
12  
13  
14 }  
15  
16  
  
PROBLEMS OUTPUT DEBUG CONSOLE PORTS  
No problems have been detected in the workspace.  
Filter (e.g. text, **/*.ts, !*...)  
Code + -  
pp -o weeklyA } ; if ($?) { .\weeklyA }  
Enter first number  
4  
Enter second number  
3  
1 1  
PS D:\CODING\c++\Assignment>  
Ln 12, Col 1 Spaces: 4 UTF-8 CRLF {} C++ Win32  
14:01  
19-09-2023
```

**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;  
}
```

The screenshot shows a C++ IDE with a file named `weeklyA.cpp`. The code is as follows:

```
1 #include <iostream>
2 using namespace std;
3 int main(){
4
5     int x,y;
6     cin>>x>>y;
7     x+=y;
8     x-=y;
9     x%=y;
10    cout<<x;
11
12
13
14 }
15
16
```

The bottom panel shows the **PROBLEMS** tab with the message: "No problems have been detected in the workspace." The **TERMINAL** tab shows the following commands and output:

```
(?) { g++ weeklyA.cpp -o weeklyA } ; if (?) { .\weeklyA }
2
3
4
PS D:\CODING\c++\Assignment> cd "d:\CODING\c++\Assignment\" ; if (?) { g++ weeklyA.c
pp -o weeklyA } ; if (?) { .\weeklyA }
3 4
3
PS D:\CODING\c++\Assignment>
```

The status bar at the bottom indicates: Ln 11, Col 1, Spaces: 4, UTF-8, CRLF, {} C++, Win32. The system clock shows 14:05 on 19-09-2023.

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

The screenshot shows a C++ IDE with a file named `weeklyA.cpp`. The code is as follows:

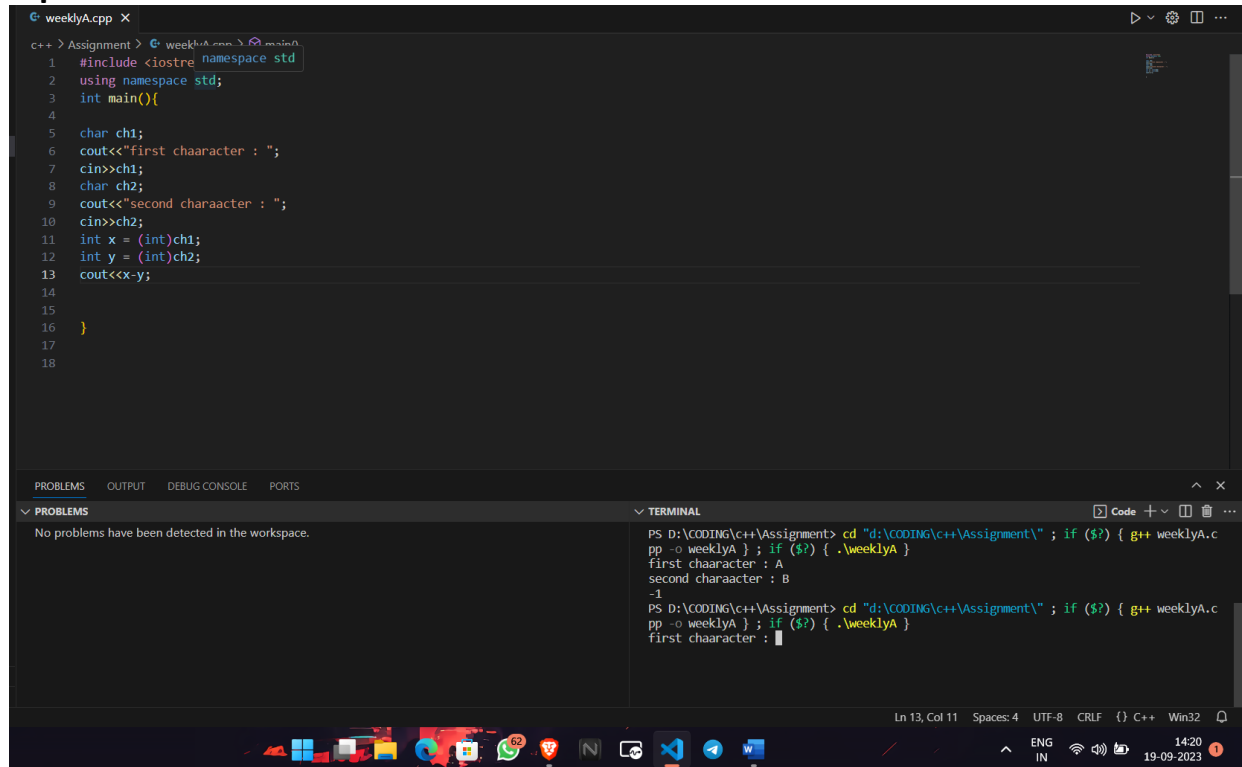
```
1 #include <iostream>
2 using namespace std;
3 int main(){
4
5     int r;
6     cout<<"enter radius :";
7     cin>>r;
8     int h;
9     cout<<"enter height :";
10    cin>>h;
11    float pi = 3.1415;
12    float v = pi*r*r*h;
13    cout<<"volume of cylinder is :"<<v;
14
15
16
17
18 }
19
20
```

The bottom panel shows the **PROBLEMS** tab with the message: "No problems have been detected in the workspace." The **TERMINAL** tab shows the following commands and output:

```
(?) { g++ weeklyA.cpp -o weeklyA } ; if (?) { .\weeklyA }
3 4
3
PS D:\CODING\c++\Assignment> cd "d:\CODING\c++\Assignment\" ; if (?) { g++ weeklyA.c
pp -o weeklyA } ; if (?) { .\weeklyA }
enter radius :5
enter height :10
volume of cylinder is :785.375
PS D:\CODING\c++\Assignment>
```

The status bar at the bottom indicates: Ln 10, Col 8, Spaces: 4, UTF-8, CRLF, {} C++, Win32. The system clock shows 14:12 on 19-09-2023.

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



The screenshot shows a C++ IDE with a file named `weeklyA.cpp`. The code is as follows:

```
1 #include <iostream> namespace std
2 using namespace std;
3 int main()
4 {
5     char ch1;
6     cout<<"first character : ";
7     cin>>ch1;
8     char ch2;
9     cout<<"second character : ";
10    cin>>ch2;
11    int x = (int)ch1;
12    int y = (int)ch2;
13    cout<<x-y;
14
15 }
16
17
18
```

The terminal output shows the program being executed twice. In the first run, the user inputs 'A' and 'B', resulting in the output `-1`. In the second run, the user inputs 'A' and 'A', resulting in the output `0`.

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;
}
```

weeklyA.cpp

c++ > Assignment > weeklyA.cpp > main()

```
1  #include <iostream>
2  using namespace std;
3  int main(){
4
5  int i = ( 4 + 7 / 5 * 6 * 6+9 )% 100 ;
6  cout<<i;
7
8
9
10 }
11
12
```

PROBLEMS

OUTPUT

DEBUG CONSOLE

PORTS

PROBLEMS

No problems have been detected in the workspace.

TERMINAL

```
49
PS D:\CODING\c++\Assignment> cd "d:\CODING\c++\Assignment\" ; if ($?) { g++ weeklyA.c
pp -o weeklyA } ; if ($?) { .\weeklyA }
49
PS D:\CODING\c++\Assignment> cd "d:\CODING\c++\Assignment\" ; if ($?) { g++ weeklyA.c
pp -o weeklyA } ; if ($?) { .\weeklyA }
49
PS D:\CODING\c++\Assignment>
```

Ln 7, Col 1 Spaces: 4 UTF-8 CRLF {} C++ Win32 14:26 19-09-2023