

Assignment-2

Q1. 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;
}
```

Answer:

Enter first number

2

Enter second number and value for taking modulus

3 6

Output is: 0

Q2. 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);
}
```

Answer:

Enter first number

3

Enter second number

2

1 1

Q3. 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;
}
```

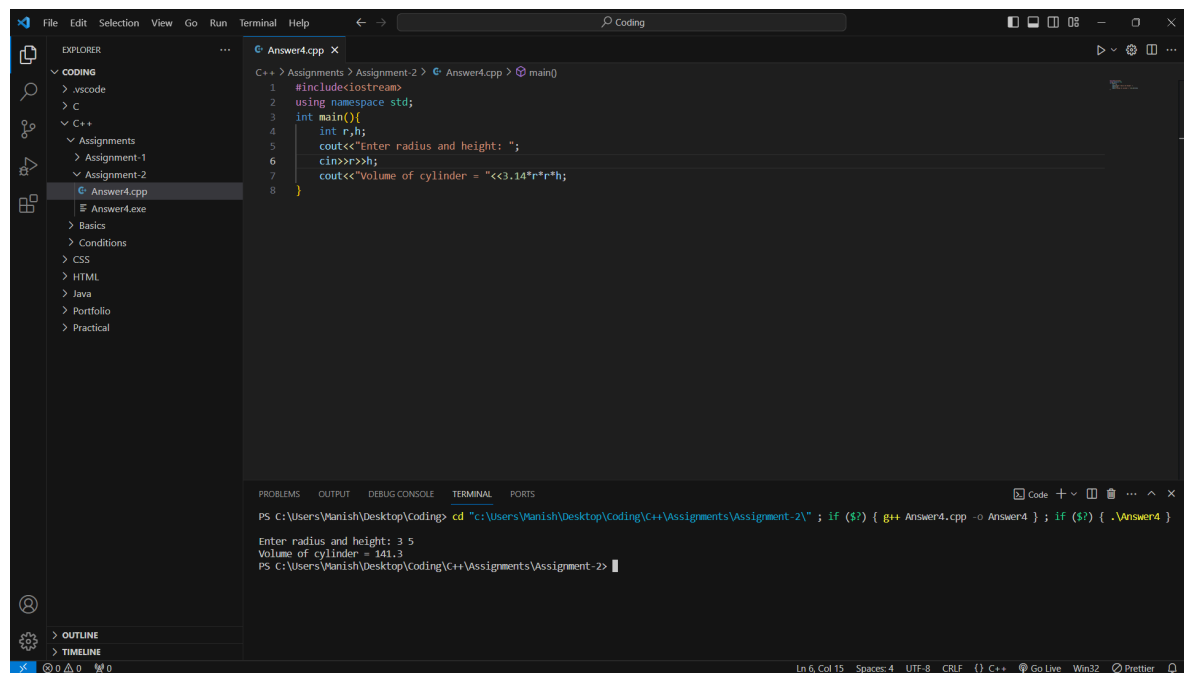
Answer:

2 3

2

Q4. WAP for finding the volume of the cylinder by taking radius and height as input.

Answer:



The screenshot shows a Visual Studio Code editor with a C++ file named `Answer4.cpp`. The code defines a `main` function that takes two integers, `r` (radius) and `h` (height), as input. It calculates the volume of a cylinder using the formula $V = 3.14 \times r^2 \times h$ and prints the result. The terminal output shows the program being executed with inputs 3 and 5, resulting in a volume of 141.3.

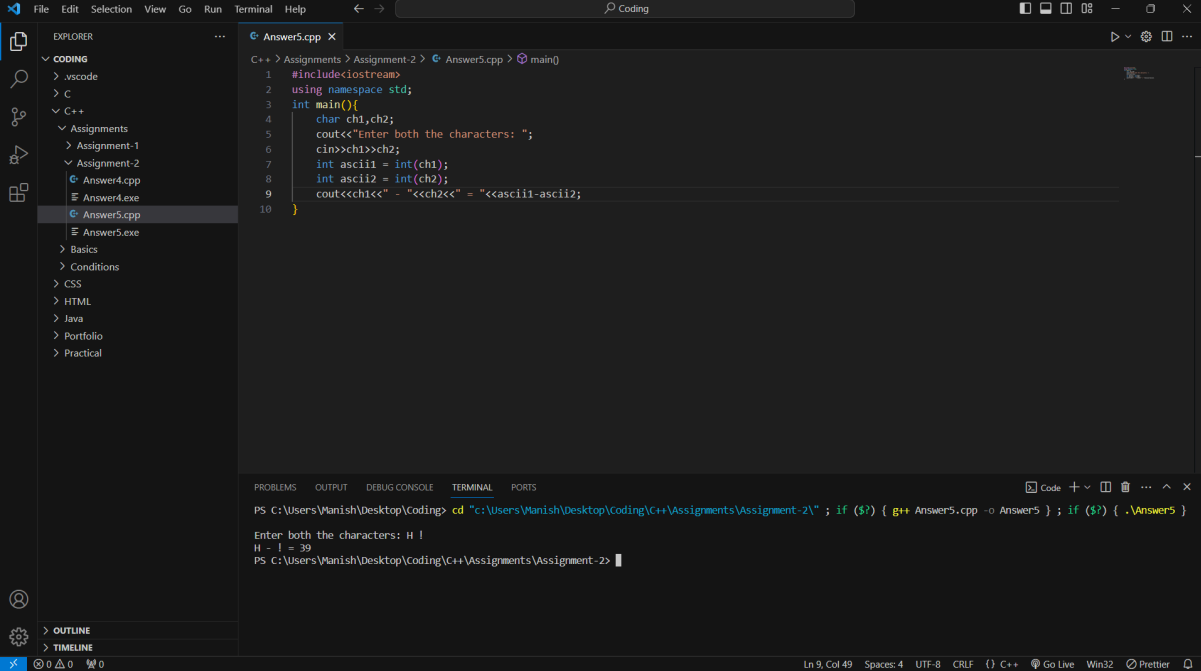
```
1 #include<iostream>
2 using namespace std;
3 int main(){
4     int r,h;
5     cout<<"Enter radius and height: ";
6     cin>>r>>h;
7     cout<<"Volume of cylinder = "<<3.14*r*r*h;
8 }
```

Terminal Output:

```
PS C:\Users\Manish\Desktop\Coding> cd "C:\Users\Manish\Desktop\Coding\C++\Assignments\Assignment-2\" ; if ($?) { g++ Answer4.cpp -o Answer4 } ; if ($?) { .\Answer4 }
Enter radius and height: 3 5
Volume of cylinder = 141.3
PS C:\Users\Manish\Desktop\Coding\C++\Assignments\Assignment-2>
```

Q5. WAP to find the difference between ASCII of two characters ,take them as input .

Answer:



The screenshot shows the Visual Studio Code interface. The Explorer panel on the left shows a project structure with folders for 'CODING', 'C', 'C++', and 'Assignments'. Under 'Assignments', there are files for 'Assignment-1', 'Assignment-2', 'Answer4.cpp', 'Answer4.exe', and 'Answer5.cpp'. The main editor window displays the code for 'Answer5.cpp'. The code is a C++ program that takes two characters as input and calculates the difference between their ASCII values. The terminal at the bottom shows the command to compile and run the program, and the output shows the user entering 'H' and 'I', resulting in an ASCII difference of 1.

```
1 #include<iostream>
2 using namespace std;
3 int main(){
4     char ch1,ch2;
5     cout<<"Enter both the characters: ";
6     cin>>ch1>>ch2;
7     int ascii1 = int(ch1);
8     int ascii2 = int(ch2);
9     cout<<ch1<<" - "<<ch2<<" = "<<ascii1-ascii2;
10 }
```

Terminal Output:

```
PS C:\Users\Manish\Desktop\Coding> cd "C:\Users\Manish\Desktop\Coding\C++\Assignments\Assignment-2\" ; if ($?) { g++ Answer5.cpp -o Answer5 } ; if ($?) { .\Answer5 }
Enter both the characters: H I
H - I = 39
PS C:\Users\Manish\Desktop\Coding\C++\Assignments\Assignment-2>
```

Q6. 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;
}
```

Answer:

49