Assignments

C++ Assignments 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;

}

Ans- first of all the syntax is correct . and while evaluating the value of z first we have to solve the bracket part and then the modulo part which make it an output of z=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);

}

Ans- the syntax is correct. In the cout part we see that there are boolean expression so the output shall be 0 for false and 1 for true. By evaluating the first condition it will give 1 (true) and a space and then again 1(true). (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;

}

Ans- All the syntax is correct. After then evaluating the assignment operators first the value of x is 2 and of y is 3 then x+=y gives x=5 and y=3 then x-=y gives x=2 and y=3 then x%=y gives x=2 and y=3.

Thus the final output will be 2 for x.

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

Ans- *//volume of cylinder =(3.14\*r^2\*h)*

**#include** <iostream>

**using** **namespace** std;

**int** main(){

**float** radius,height;

cout**<<**"enter the radius and height: ";

cin**>>**radius**>>**height;

**float** volume\_cylinder**=**(3.14**\***radius**\***radius**\***height);

cout**<<**"the volume of the cylinder:"**<<**volume\_cylinder;

**return** 0;

}

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

Ans- **#include** <iostream>

**using** **namespace** std;

**int** main(){

**char** a,b;

cout**<<**"enter two chaarcters: ";

cin**>>**a**>>**b;

cout**<<**"the difference between the ascii values:"**<<**a**-**b;

**return** 0;

}

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;

}

Ans- using the precidency rule / > \* >+ > -

But we have to solve the brackets first.

Using that the (4+1\*6\*6+9)%100

(4+6\*6+9)%100

(4+36+9)%100

49%100

That gives the final output to be 49.

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

Java + DSA C++ & DSA