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Batch: Decode 2.0

Assignment :2 week(1)

Ques 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;

}
```

Soln:

$$Z = (x * y) \% m$$
$$Z = (2 * 3) \% 6$$
$$Z = (6) \% 6$$
$$Z = 0$$

So the ans is Output is :0

Ques: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);
}

```

Soln 1 1

As both the expression are correct

1.3!=2 3 is not equal to 2->1 for true expression

Then gap

Then again true expression 3>=2 so after a gap 1 for this expression.

Ques 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;
}

```

Soln3: 2

First $x=x+y \Rightarrow x=2+3=5$

Then $x=x-y \Rightarrow x=5-3=2$

And then $x=x \% y \Rightarrow x=2\%5=2$

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

```
File Edit Selection View Go Run Terminal Help volumeC
OfThree.cpp characterIsAlphabet.cpp divBy3Or5butnotBy15.cpp
2.Input > volumeOfCylinder.cpp > main()
1  #include<iostream>
2  using namespace std;
3  int main(){
4      float r; //r=radius of cylinder
5      cout<<"Enter the radius of cylinder:";
6      cin>>r;
7
8      float h; //h=height of cylinder
9      cout<<"Enter the hieght of cylinder:";
10     cin>>h;
11
12     float pi = 3.14;
13
14     float volume = pi * r*r*h;
15     cout<<"Volume of Cylinder : "<<volume;
16     return 0;
17 }
```

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

```
File Edit Selection View Go Run Terminal Help diffOfAscii.cpp - 1.c++ programming
p characterIsAlphabet.cpp divBy3Or5butnotBy15.cpp greatestOfThree2.cpp vol
2.Input > diffOfAscii.cpp > main()
1  #include<iostream>
2  using namespace std;
3  int main(){
4      char ch1,ch2;
5      cout<<"Enter first character:";
6      cin>>ch1;
7
8      cout<<"Enter another character :";
9      cin>>ch2;
10
11     cout<<"the diff. btw. ascii of two character:"<<(int)ch1-(int)ch2;
12     return 0;
13 }
```

Soln:

Ques 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;
}
```

Soln :49

Using bodmas and left to right concept

$$=(4+1*6*6+9)\%100$$
$$=(4+36+9)\%100$$
$$=(49)\%100$$
$$=49$$

Thank u