Assignments

C++ Assignments 2

Q1. Find the output for this code. Let input:- 2 3 6

```cpp
#include <iostream>
using namespace std;
int main()
{
int x;
cout << "Enter first number\n";
cin >> x; // user will give 'x' a value.        //2//
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;                    // (2*3)%6//
cout << "Output is: " << Z;   //0//
}
```

Ans; output:: z=0

Q2. Find the output for this code. Let input:- 3 2

```cpp
#include <iostream>
using namespace std;
int main()
{
int x;
cout<<"Enter first number\n";
cin>>x; // user will give 'x' a value.     //3//
int y;
cout<<"Enter second number\n";
cin>>y; // user will give 'y' a value.     //2//
cout<<(x!=y)<<" "<<(x>=y);     //(3 != 2) true i.e "1"  (3>=2) true i.e "1" //
}
```

Output:: 1 1

Q3. Find the output for this code. Let input:- 2 3

```cpp
#include <iostream>
using namespace std;
int main()
{
int x,y;
cin>>x>>y;   // taking inputs x=2, y=3//
x+=y;    //x=2+3  i.e x=5//
x-=y;    //x=x-y  i.e  x=5-3 =2//
x%=y;   //x=x%y i.e x=2%3=2//
cout<<x; //2//
}
```

OUTPUT: x=2

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

Ans:

```cpp
#include <iostream>
using namespace std;
int main(){
    float radius,height;
    cin>>radius  >>height;  //taking inputs as 2,3//
    float x;
    float pi=2.16;
    x=pi*radius*radius*height;
    cout<<"volume of cylinder = "  <<x ;
    return 0;
}
```
Output:: volume of cylinder =25.92

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

Ans::
```cpp
#include <iostream>
using namespace std;
int main(){
    char ch1,ch2;
    cin>>ch1  >>ch2;
    int  ascii1=(int)ch1;
    int  ascii2=(int)ch2;
    int ascii_difference=(ascii1-ascii2);
    cout<<"ascii_difference ="   <<ascii1 <<"-" <<ascii2   <<"=" <<ascii_difference;
    return 0;
}
```

OUTPUT::
>>a
>>A
ascii_difference =97-65=32

Q6. Find the output of the below code


```
#include <iostream>
using namespace std;
int main()
{
int i = ( 4 + 7 / 5 * 6 * 6+9 )% 100 ;  //(4+ (7/5=1)*6*6+9)=49//
                                        //(49)%100= 49//

cout<<i;
}
```

OUTPUT::
49