

UNIVERSITY OF GUJRAT



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Course Name:

Programmig Fundamental

**Department of Computer Science**

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**Question #1 : Find the Error of the following code. If no error then write output.**

a :

```
#include <iostream>
```

```
using namespace std;
```

```
int main()
```

```
{
```

```
    int I, j;
```

```
    for (I = 1; I >= 7; I++)
```

```
        cout << I;
```

```
    cout << "end of program";
```

```
    return 7;
```

```
}
```

```
PS D:\c++ programs> cd "d:\c++ programs\Question-1\" ; if ($?) { g++ a.  
a }  
end of program  
PS D:\c++ programs\Question-1> █
```

**B :**

```
#include <iostream>
```

```
using namespace std;
```

```
int main()
```

```
{
```

```
int num1 = 11, num2 = 10;

if (num1 < num2)

    cout << "num1 is the smallest";

    num1 = num2;

else

    cout << "num2 is smallest";

return 0;

}
```

```
b.cpp: In function 'int main()':
b.cpp:11:5: error: 'else' without a previous 'if'
      else
      ^~~~
PS D:\c++ programs\Question-1> 
```

**C :**

```
#include <iostream>
```

```
using namespace std;
```

```
int main()
```

```
{
```

```
    int a = 0, b = 1;
```

```
    a = b++;
```

```
cout << a << b;  
  
b = ++a;  
  
cout << a << b;  
  
return 0;  
  
}
```

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PS D:\c++ programs\Question-1> █

**D :**

```
#include <iostream>
```

```
using namespace std;
```

```
int main(){
```

```
    cout<<"enter values";
```

```
    int a,b,res;
```

```
    cin>>a;cin>>b;
```

```
    a=20;b=10;
```

```
    a+b=res;
```

```
    cout<<"res ="<<res;
```

```
    return 0;
```

```
}
```

```
d.cpp: In function 'int main()':  
d.cpp:8:9: error: lvalue required as left operand of assignment  
    a+b=res;  
      ^~~  
PS D:\c++ programs\Question-1> 
```



**Question #3 : Write a program that read height in inches and display the height in feet and inches.**

```
#include <iostream>

using namespace std;

int main(){

    float inches,feet;

    cout<<"Enter height in inches";

    cin >>inches;

    feet=inches/12;

    cout<<"Your height in feet = "<<feet<<endl;

}
```

```
Enter height in inches 58
Your height in feet = 4.83333
PS D:\c++ programs>
```

**Question #4 : Write a program that take two numbers form user.  
Find if the first number is multiple of second number.**

```
#include <iostream>

using namespace std;

int main(){

    int num1,num2;

    cout<< "enter two numbers";

    cin>>num1>>num2;

    if(num1%num2== 0){

        cout<<"your number is multiple of second number";

    }

    else{

        cout<<"your number is not multiple of second number";

    }

    return 0;

}
```

```
enter two numbers 20 5
your number is multipal of second number
PS D:\c++ programs> |
```

**Question #5 : Write a program that read 10 numbers from the user and display their sum , maximum a minimum number.**

```
#include <iostream>

using namespace std;

int main()

{

    int num, sum = 0, max=0, min=9999;

    cout << "Enter 10 Number: ";

    for (int i = 0; i < 10; i++)

    {

        cin >> num;
```

```
sum = sum + num;
```

```
if(max<num) {
```

```
    max=num;
```

```
}
```

```
if(min>num) {
```

```
    min=num;
```

```
}
```

```
}
```

```
cout <<"\nsum of numbers is\t"<< sum;
```

```
cout <<"\nmax of these number\t"<< max;
```

```
cout <<"\nmin of these number\t"<< min;
```

```
return 0;
```

```
}
```

```
Enter 10 Number: 44 66 37 458 25 3 2 5 33 44
```

```
sum of numbers is      717
```

```
max of these number    458
```

```
min of these number    2
```

```
PS D:\c++ programs> 
```

---

### Array Sorting Program:

```
#include <iostream>
```

```
using namespace std;
```

```
const int n = 10;
```

```
// Function that take input
```

```
void inputarray(int ar[])
```

```
{  
  
    cout << "Enter " << n << " values of array";  
  
    for (int i = 0; i < n; i++)  
  
    {  
  
        cin >> ar[i];  
  
    }  
  
}
```

// Function for sorting array

```
void sortArray(int ar[])  
  
{  
  
    int temp;  
  
    for (int j = 1; j <= n; j++)  
  
    {  
  
        for (int i = 0; i < n; i++)  
  
        {  
  
            if (ar[i] > ar[i + 1])
```

```
    {  
  
        temp = ar[i];  
  
        ar[i] = ar[i + 1];  
  
        ar[i + 1] = temp;  
  
    }  
  
}  
  
}
```

// Function for output

```
void output(int ar[])  
  
{  
  
    cout << "Your array in assending order = ";  
  
    for (int i = 0; i < n; i++)  
  
    {  
  
        cout << ar[i] << " ";  
  
    }  
  
}
```

```
}
```

```
// now main function
```

```
int main()
```

```
{
```

```
    int ar[n];
```

```
    inputarray(ar);
```

```
    sortArray(ar);
```

```
    output(ar);
```

```
}
```

```
PS D:\c++ programs> cd "d:\c++ programs\" ; if ($?) { g++ temp.cpp -o temp } ; if ($?) { .\temp }  
Enter 10 values of array3 4 37 48 25 37 5 48 3 4 5  
Your array in assending order = 3 3 4 4 5 25 37 37 48 48  
PS D:\c++ programs> █
```



