

Practical work 3: Conditional statements

Exercise 1:

Trace the execution of the following C++ program using as input:

1. x=15
2. x=39

```
#include<iostream>
using namespace std;
int main(){
    int x;
    cout<<"Please enter an integer:";
    cin>>x;
    if((x%3==0) && (x%5==0)){
        cout<<x<<"is divisible by 3 and 5"<<endl;
    }
    else{
        cout<<x<<"is not divisible by 3 and 5"<<endl;
    }
}
```

Exercise 2:

Write a C++ program to **read temperature** in centigrade and **display** a suitable message according to the temperature state below:

1. Temp < 0 then Freezing weather
2. Temp 0-10 then Very Cold weather
3. Temp 10-20 then Cold weather
4. Temp 20-30 then Normal in Temp
5. Temp 30-40 then Its Hot
6. Temp >=40 then Its Very Hot

Exercise 3: (supplementary)

Write a C++ program to check whether a triangle can be formed with the given values for the angles.

Practical work 3: Conditional statements

Exercise 1:

Trace the execution of the following C++ program using as input:

3. x=15
4. x=39

```
#include<iostream>
using namespace std;
int main(){
    int x;
    cout<<"Please enter an integer:";
    cin>>x;
    if((x%3==0) && (x%5==0)){
        cout<<x<<"is divisible by 3 and 5"<<endl;
    }
    else{
        cout<<x<<"is not divisible by 3 and 5"<<endl;
    }
}
```

Exercise 2:

Write a C++ program to **read temperature** in centigrade and **display** a suitable message according to the temperature state below:

7. Temp < 0 then Freezing weather
8. Temp 0-10 then Very Cold weather
9. Temp 10-20 then Cold weather
10. Temp 20-30 then Normal in Temp
11. Temp 30-40 then Its Hot
12. Temp >=40 then Its Very Hot

Exercise 3: (supplementary)

Write a C++ program to check whether a triangle can be formed with the given values for the angles.