

Name Ahmad Ikhlaq.  
Sap ID 72581  
Subject Programming fundamentals.

Q:1 Write a program that input marks of three subjects, if the average of marks is more than 80, it display two messages "You are above standard" and "Admission Granted".

```
#include <iostream>
using namespace std;
int main ()
{
    int Sub1, Sub2, Sub3, Avg;
    cout << "Enter marks of first sub";
    cin >> 40;
    cout << "Enter marks second sub";
    cin >> 58;
    cout << "Enter marks third sub";
    cin >> 60;
    Avg = Sub1, Sub2, Sub3 / 3
    If (Avg >= 80)
        cout << "You are above standard"
        and "Admission Granted";
    return 0;
}
```

Q.No2 Write a program that input two number and finds if second number is square of first number

```
#include <iostream>
using namespace std;
int main ()
{
    int num1, num2;
    cout << "Enter first number:";
    cin >> num1;
    cout << "Enter second number:";
    cin >> num2;
    if (num2 == num1 * num1)
        cout << "The second number is the
square of the first number." << endl;
    else
        cout << "The second number is
not the square of the first
number." << endl;
    return 0;
}
```

Q: No: 3 Write

input a program that  
final whether number and  
even or the number is  
odd.

```
#include <iostream>
using namespace std;
int main ()
{
    int number;
    cout << "Enter a number: ";
    cin >> number;
    if (number % 2 == 0)
        cout << "The number is even."
    endl;
    else
        cout << "The number is odd."
    endl;
    return 0;
}
```

Q: 4 Write a program that input  
a number and determine it  
is positive, negative or 0.

```

#include <iostream>
using namespace std;
int main ()
{
    int number;
    cout << "Enter a number: ";
    cin >> number;
    if (number > 0)
        cout << "The number is positive." << endl;
    else if (number == 0)
        cout << "The number is negative." << endl;
    else
        cout << "The number is zero." << endl;
    return 0;
}

```

Q: No: 5 Write a program that input three numbers and display maximum number.

```

#include <iostream>
using namespace std;
int main ()
{
    int num1, num2, num3;
    cout << "Enter three numbers: ";
    cin >> num1 >> num2 >> num3;

```

```
int max:  
if (num 1 > num2 && num1>num3)  
    max = num1;  
    if (num2 > num3)  
        max = num2;  
else  
    max = num3;  
cout << "Maximum number is: " << max  
endl;  
return 0;  
}
```

Q: No: 6

```
#include <iostream>
using namespace std;
int main ()
{
    int a, b, temp;
    cout << "Ahmed Elhag 72581";
    cout << "Enter first number:";
    cin >> a;
    cout << "Enter second number:";
    cin >> b;
    // swapping using a temporary variable
    temp = a;
    a = b;
    b = temp;

    cout << "After swapping:" << endl;
    cout << "First number=" << a << endl;
    cout << "Second number=" << b << endl;
    return 0;
}
```

# Coding C++

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RUN MENU

```
1 #include<iostream>
2 using namespace std;
3
4 int main()
5 {
6     int s1,s2,s3,avg;
7     cout<<"Enter your marks s1";
8     cin>>s1;
9     cout<<"Enter your marks s2";
10    cin>>s2;
11    cout<<"Enter your marks s3";
12    cin>>s3;
13    avg=s1+s2+s3/3;
14    if(avg>=80)
15    {
16        cout<<"you are above standard and admission granted" << endl;
17        cout<<"you are nit admission granted" << endl;
18    }
19    cout<<"Ahmad Ikhlaq 72581" << endl;
20    return 0;
21 }
```



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## Compile Result

Enter your marks s190

Enter your marks s280

Enter your marks s390

you are above standard and admission granted

you are nit admission granted

Ahmad Ikhlaq 72581

[Process completed - press Enter]

# Coding C++

[RUN](#)[MENU](#)

Auto saved at 15:35:32

```
2 using namespace std;  
3  
4 int main()  
5 {  
6     int num1,num2;  
7     cout<<"Enter first num:";  
8     cin>>num1;  
9     cout<<"Enter second num:";  
10    cin>>num2;  
11    if(num2==num1*num1)  
12    {  
13        cout<<"The second number is the square of the fi  
14    }  
15    else{  
16        cout<<"The second number is not the square of th  
17    }  
18    cout<<"Ahmad Ikhlaq 72581";  
19    return 0;  
20 }
```

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# Compile Result

Enter first num:40

Enter second num:90

The second number is not the square of the first number.

Ahmad Ikhlaq 72581

[Process completed - press Enter]

7:15

Wi-Fi VoIP LTE2 111

# Compile Result

Ahmad Ikhlaq 72581  
Enter a number: 2  
The number is even.

[Process completed - press Enter]



7:15

LTE2

# Coding C++

RUN MENU

Auto saved at 19:15:23

```
1 #include <iostream>
2 using namespace std;
3
4 int main() {
5     int number;
6     cout << "Ahmad Ikhlaq 72581";
7     cout << "Enter a number: ";
8     cin >> number;
9
10    if (number % 2 == 0)
11        cout << "The number is even." << endl;
12    else
13        cout << "The number is odd." << endl;
14    return 0;
15 }
```

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Wi-Fi VoIP LTE2 .11

# Compile Result

Ahmad Ikhlaq 72581  
Enter a number: 3  
The number is positive.

[Process completed - press Enter]

7:20

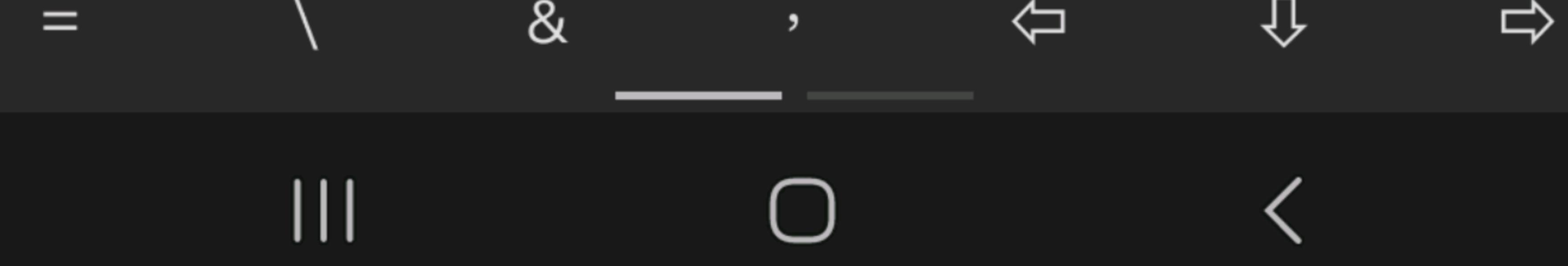
LTE2

# Coding C++

RUN MENU

Auto saved at 19:19:58

```
1 #include <iostream>
2 using namespace std;
3
4 int main() {
5     int number;
6     cout<<"Ahmad Ikhlaq 72581";
7     cout << "Enter a number: ";
8     cin >> number;
9
10    if (number > 0)
11        cout << "The number is positive." << endl;
12    else if (number < 0)
13        cout << "The number is negative." << endl;
14    else
15        cout << "The number is zero." << endl;
16
17    return 0;
18 }
```



7:23

Wi-Fi VoIP LTE2 4G

## Compile Result

Ahmad Ikhlaq 72581 Enter three numbers: 20

45

68

The maximum number is: 68

[Process completed - press Enter]



7:23

VoIP LTE2 .11

# Coding C++

RUN

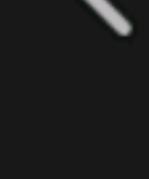
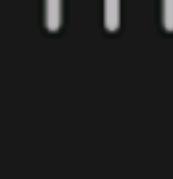
MENU

Auto saved at 19:23:53

```
1 #include <iostream>
2 using namespace std;
3
4 int main() {
5     int num1, num2, num3;
6     cout << "Ahmad Ikhlaq 72581";
7     cout << "Enter three numbers: ";
8     cin >> num1 >> num2 >> num3;
9
10    if (num1 >= num2 && num1 >= num3)
11        cout << "The maximum number is: " << num1 << endl;
12    else if (num2 >= num1 && num2 >= num3)
13        cout << "The maximum number is: " << num2 << endl;
14    else
15        cout << "The maximum number is: " << num3 << endl;
16
17    return 0;
18 }
```

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7:28

VoIP LTE2 .11

## Compile Result

Ahmad Ikhlaq 72581 Enter first number: 4

Enter second number: 6

After swapping:

First number = 6

Second number = 4

[Process completed - press Enter]

7:28

VoIP LTE2 .11

# Coding C++

RUN MENU

Auto saved at 19:28:15

```
1 #include <iostream>
2 using namespace std;
3
4 int main() {
5     int a, b, temp; cout<<"Ahmad Ikhlaq 72581";
6     cout << "Enter first number: ";
7     cin >> a;
8     cout << "Enter second number: ";
9     cin >> b;
10
11    // Swapping using a temporary variable
12    temp = a;
13    a = b;
14    b = temp;
15
16    cout << "After swapping:" << endl;
17    cout << "First number = " << a << endl;
18    cout << "Second number = " << b << endl;
19
20    return 0;
21 }
```

