

Programming Fundamental

Lab Task Assignment

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BSA1

A1)

```
#include <iostream>
using namespace std;
int main () {
    int a, b, temp;
    cout << "Enter your first number: ";
    cin >> a;
    cout << "Enter your second number: ";
    cin >> b;
    temp = a;
    a = b;
    b = temp;
    cout << "The value after swapping are: \n";
    cout << "The value of first number= " << a << endl;
    cout << "The value of second number= " << b << endl;
    return 0;
}
```



Shot on OnePlus

Powered by Dual Camera

Coding C++

RUN MENU

Auto saved at 20:43:06

```
1 #include <iostream>
2 using namespace std;
3
4 int main() {
5     cout << "Shan_72387";
6     int a, b, temp;
7
8     cout << "Enter your first number: ";
9     cin >> a;
10    cout << "Enter your second number: ";
11    cin >> b;
12
13    temp = a;
14    a = b;
15    b = temp;
16
17    cout << "The values after swapping are:\n";
18    cout << "The value of first number = " << a << endl;
19    cout << "The value of second number = " << b << endl;
20
21    return 0;
22 }
```



Compile Result

```
Shan_72387Enter your first number: 4  
Enter your second number: 7  
The values after swapping are:  
The value of first number = 7  
The value of second number = 4
```

[Process completed - press Enter]



A2)

```
# include <iostream>
using namespace std;
int main()
{
    float sub1, sub2, sub3, avg;
    cout << "Enter marks of three subjects:";
    cin >> sub1 >> sub2 >> sub3;
    avg = (sub1 + sub2 + sub3) / 3;
    if (avg > 80)
        cout << "You are above standard" << endl;
    if (avg > 80)
        cout << "Admission Granted" << endl;
    return 0;
}
```



Coding C++

RUN MENU

Auto saved at 20:51:33

```
1 #include <iostream>
2 using namespace std;
3
4 int main() {
5     cout << "Shan_72387";
6     float sub1, sub2, sub3, avg;
7
8     cout << "Enter marks of three subjects: ";
9     cin >> sub1 >> sub2 >> sub3;
10
11    avg = (sub1 + sub2 + sub3) / 3;
12
13    if (avg > 80)
14        cout << "You are above standard" << endl;
15    if (avg > 80)
16        cout << "Admission Granted" << endl;
17
18    return 0;
19 }
```



Compile Result

Shan_72387Enter marks of three subjects: 90

85

75

You are above standard

Admission Granted

[Process completed - press Enter]

1 2 3 4 5 6 7 8 9 0

q w e r t z u i o p

a s d f g h j k l

↶ y x c v b n m ↶

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A3,

Q3, Write a program that input two numbers and finds if second number is square of first number.

A,

```
# include <iostream>
```

```
using namespace std;
```

```
int main ()
```

```
{
```

```
    int n1, n2;
```

```
    cout << "Input First number";
```

```
    cin >> n1;
```

```
    cout << "Input Second number";
```

```
    cin >> n2;
```

```
If
```

```
(n2 == n1 * n1)
```

```
{
```

```
    cout << "Yes the Second number is
```

```
    Square of First number";
```

```
    return 0;
```

```
}
```



Coding C++

RUN MENU

Auto saved at 20:58:56

```
1 #include <iostream>
2 using namespace std;
3
4 int main() {
5     cout << "Shan_72387";
6     int n1, n2;
7
8     cout << "Enter first number: ";
9     cin >> n1;
10    cout << "Enter second number: ";
11    cin >> n2;
12
13    if (n2 == n1 * n1)
14        cout << "Second number is the square of first number"
15    if (n2 != n1 * n1)
16        cout << "Second number is not the square of first num
17
18    return 0;
19 }
```



Compile Result

```
Shan_72387Enter first number: 3
Enter second number: 6
Second number is not the square of first number

[Process completed - press Enter]
```



AY,

```
#include <iostream>
```

```
using namespace std;
```

```
int main()
```

```
{
```

```
    int num;
```

```
    cout << "Enter a number";
```

```
    cin >> num;
```

```
    if (num / 2 == 0)
```

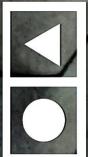
```
        cout << "The number is even" << endl;
```

```
    if (num / 2 != 0)
```

```
        cout << "The number is odd" << endl;
```

```
    return 0;
```

```
}
```



Coding C++

RUN MENU

Auto saved at 21:03:25

```
1 #include <iostream>
2 using namespace std;
3
4 int main() {
5     cout << "Shan_72387";
6     int num;
7
8     cout << "Enter a number: ";
9     cin >> num;
10
11    if (num % 2 == 0)
12        cout << "The number is even" << endl;
13    if (num % 2 != 0)
14        cout << "The number is odd" << endl;
15
16    return 0;
17 }
```

Compile Result

Shan_72387Enter a number: 3
The number is odd

[Process completed - press Enter]

1 2 3 4 5 6 7 8 9 0

q w e r t z u i o p

a s d f g h j k l

↶ y x c v b n m ↶

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A5,

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



Coding C++

RUN MENU

Auto saved at 21:08:59

```
1 #include <iostream>
2 using namespace std;
3
4 int main() {
5     cout << "Shan_72387";
6     int num;
7
8     cout << "Enter a number: ";
9     cin >> num;
10
11    if (num > 0)
12        cout << "The number is positive" << endl;
13    if (num < 0)
14        cout << "The number is negative" << endl;
15    if (num == 0)
16        cout << "The number is zero" << endl;
17
18    return 0;
19 }
```

Compile Result

```
Shan_72387Enter a number: -2
The number is negative
```

```
[Process completed - press Enter]
```

1 2 3 4 5 6 7 8 9 0

@ # £ & _ - () = %

{&= " * ' : / ! ? + ↵

abc , [. ↵

Q6, # `#include <iostream>`

using namespace std;
int main ()

{

int a, b, c;

cout << "Input three numbers";

cin >> a & b;

cin >> b;

cin >> c;

if (a >= b and a >= c)

cout << a << "largest number" << endl;

else if (b >= a and b >= c)

cout << b << "largest number" << endl;

else (c >= a and c >= b)

cout << c << "largest number" << endl;

return 0;

{}



Coding C++

RUN MENU

Auto saved at 21:10:27

```
1 #include <iostream>
2 using namespace std;
3
4 int main() {
5     cout << "Shan_72387";
6     int a, b, c;
7
8     cout << "Enter three numbers: ";
9     cin >> a >> b >> c;
10
11    if (a > b && a > c)
12        cout << "Maximum number is: " << a << endl;
13    if (b > a && b > c)
14        cout << "Maximum number is: " << b << endl;
15    if (c > a && c > b)
16        cout << "Maximum number is: " << c << endl;
17
18    return 0;
19 }
```

Compile Result

```
Shan_72387Enter three numbers: 4 6 7  
Maximum number is: 7
```

```
[Process completed - press Enter]
```

1 2 3 4 5 6 7 8 9 0

q w e r t z u i o p

a s d f g h j k l

↶ y x c v b n m ↶

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