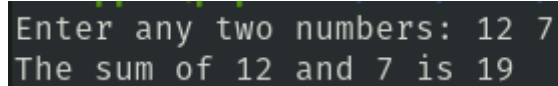


### Q1. Write a C++ program to add two numbers: -

```
#include<iostream>
using namespace std;

int main(){
    int num1, num2;
    cout << "Enter any two numbers: ";
    cin >> num1 >> num2;
    cout << "The sum of " << num1 << " and " << num2 << " is " << num1+num2 << "\n";
    return 0;
}
```

#### OUTPUT:

A screenshot of a terminal window showing the output of the C++ program. The first line is "Enter any two numbers: 12 7" and the second line is "The sum of 12 and 7 is 19".

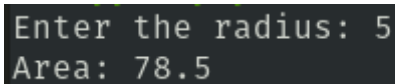
```
Enter any two numbers: 12 7
The sum of 12 and 7 is 19
```

### Q2. Dynamic Initialization of variables

```
#include <iostream>
using namespace std;

int main(){
    float r, area;
    cout << "Enter the radius: ";
    cin >> r;
    area=3.14*r*r;
    cout << "Area: " << area << "\n";
    return 0;
}
```

#### OUTPUT:

A screenshot of a terminal window showing the output of the C++ program. The first line is "Enter the radius: 5" and the second line is "Area: 78.5".

```
Enter the radius: 5
Area: 78.5
```

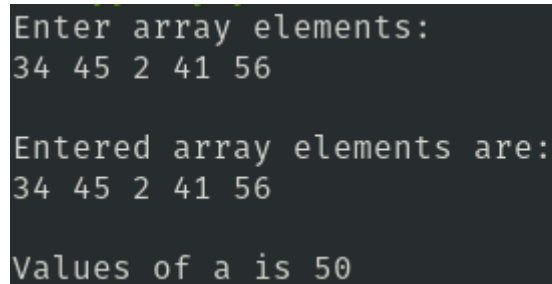
### Q3. Delete operator

```
#include<iostream>
using namespace std;

int main(){
    int *a = new int(50);
    int *b = new int[50];
    int i;
    cout << "Enter array elements: \n";
    for(i=0;i<5;i++)
        cin >> *(b+i);
    cout << "\nEntered array elements are: \n";
    for(i=0;i<5;i++)
        cout << *(b+i) << " ";
    cout << "\n\nValues of a is " << *a << "\n";
    delete a;
    delete []b;

}
```

#### OUTPUT:



```
Enter array elements:
34 45 2 41 56

Entered array elements are:
34 45 2 41 56

Values of a is 50
```

### Q4. Write a C++ Program to find factorial of a number

```
#include<iostream>
using namespace std;

int main(){
    long long int i, fact, factorial=1;
    cout << "Enter any number: ";
    cin >> fact;
    if(fact<0){
        cout << "Please enter a positive integer\n";
        return 0;
    }
    for(i=fact; i>1; i--){
        factorial *= i;
    }

    cout << "Factorial of " << fact << " is " << factorial << "\n";
}
```

```
        return 0;
    }
```

**OUTPUT:**

```
Enter any number: 5
Factorial of 5 is 120
```

**Q5. Write a C++ program to find the greatest of 3 numbers**

```
#include <iostream>
using namespace std;

int main(){
    int num1, num2, num3;
    cout << "Enter any 3 numbers: ";
    cin >> num1 >> num2 >> num3;
    if(num1>num2 && num1>num3){
        cout << num1 << " is the greatest\n";
    }
    else if(num2>num1 && num2>num3){
        cout << num2 << " is the greatest\n";
    }
    else{
        cout << num3 << " is the greatest\n";
    }
    return 0;
}
```

**OUTPUT:**

```
Enter any 3 numbers: 45 2 67
67 is the greatest
```

```
Enter any 3 numbers: 45 12 23
45 is the greatest
```

```
Enter any 3 numbers: 23 34 12
34 is the greatest
```