[**Simple C++ Programs**](http://cis.stvincent.edu/carlsond/swdesign/basic/simple.html)

1. Write a program that prints a text of 4 lines consisting of characters, integer values, floating-point and string using **cout** statement.
2. Write a program that asks the user to type 5 integers and writes the average of the 5 integers.
3. Write a program that inputs the radius of the sphere from the user. Calculates its volume and surface area using the formula Area = 4∏R2 and circumference = 4/3∏R3 where it=3.14.
4. Write a program to find out the area of triangle when three sides a, b and c of the triangle are given. Use appropriate statements to input the values of a, b and c from the keyboard. Formula for the area of triangle is

Where s = (a + b + c) / 2.

1. Write a program that inputs a number from user and displays its square and cube.
2. A car can travel 5.3 miles in 1 liter. Write a program that inputs petrol in liters and displays how much distance the car can cover using the available petrol.
3. Write a program that inputs total number of student in a class and fee per student. It displays total fee collected from the class.
4. Write a program that asks the user to accept amount and discount from the user then display the payed amount.

HINT:

dis\_amonut= (discont/100)\*amount

1. Accept two entry and then display arithmetic operation (+,-,\*, /, %).
2. Accept the values in meter then display in inches and centimeters.

HINT:

1m = 39.370079 inches

1 meter (m) = 100 centimeters (cm)

1. Accept the values in GB and display the value in bytes.

HINT:

1 GB=1024\*1024\*1024 bytes

1. Write a program that asks the user to type the width and the length of a rectangle and then outputs to the screen the area and the perimeter of that rectangle

HINT:

area=width\*length

perimeter=2\*(width+length)

1. Write a program which accept temperature in Fahrenheit and print it in centigrade

HINT:

5\*(F-32)/9

1. Write a program to swap the values of two variables
2. Write a program to swap value of two variables without using third variable
3. What is the output of following program?
4. int result = 4 + 5 \* 6 + 2;   
   cout<<result;
5. int result = 5 - 3 \* 4% (6 – 2 $ 2);   
   cout<<result;
6. int a = 5 + 7 % 2;  
   cout<<a;
7. int no = 2;

int result = ++no\*2 - 12; /// -6

cout<<result<<endl;

cout<<no<<endl; /// 3

1. int no = 2;

int result = ++no - no++ \* 2; /// -2

cout<<result<<endl;

/// 4

1. Write the following formula into C++ executable statement.
2. int x= 20, y = 35;

x = y++ + x++; /// x = 21, y = 36 == x = 56

y = ++y + x++; /// x = 56, y = 37 == y = 94

1. Write a program which accepts a character and display its next character.
2. Write a program which accepts days as integer and display total number of years, months and days in it.  
   Forexample:  If user input as 856 days the output should be 2 years 4 months 6 days.
3. Accept 5 digits no from the user then display following option.

No=12345

Result =15

1. Write a program that display the following output using single **cout** statement.

**1 2 3 4 5**

**6 7 8 9 10**

1. Write a program that inputs the x, y coordinates for two points and computes distance between two points using the formula: Distance =sqrt(x2 – x1)2 + (y2 - y1)2.
2. Write a program that inputs the name, Basic Salary of the employee. The program calculates 35% dearness allowance, 25% house rent of the employee from the basic salary then displays the gross salary which is adds basic salary, dearness allowance and house rent of the employee.
3. Write a program that inputs principal amount, rate of interest and total time. It calculates the compound interest and displays it.