

# Lets write programs from simple to complex

Simple programs (**with control structures**)

## Objectives :

1. you should be able to use if... control structures

## Exercises

1. Write a program to find the maximum value of two numbers as follows

Enter the first value                :- 25  
Enter the second value            :- 75  
The result:  
The maximum value is            :- 75

2. Alter the above program to get the following results also as follows

Enter the first value                :- 25  
Enter the second value            :- 75  
The result:  
*The maximum value is*            :- 75  
*The minimum value is*           :- 25  
*The total value is*                :- 100  
*The average value is*            :- 50

3. Write a program to say the given number is even or odd

Enter a value                        :- 25  
The result:  
The number 25 is an odd number

4. Write a program to say the given number is negative or positive

Enter a value                        :- -12  
The result:  
The number -25 is a negative number

5. Write a program to find the maximum and minimum values of three numbers as follows

Enter the first value                :- 25  
Enter the second value            :- 75  
Enter the third value               :- 35  
The result:  
*The maximum value is*            :- 75  
*The minimum value is*           :- 25

6. Write a program to display the given letter is a vowel letter or not

Enter ta letter :- **A**

The result:

The letter '**A**' is a vowel letter

7. Write a program to input a bill value. If the bill value is in following rage, apply relevant discount amount to the bill value and output the new bill value with discount amount.

Bill range -----	discount(%) -----
below 2000	0.0
between 2001.00 and 4000.00	0.3
between 4001.00 and 6000.00	0.6
between 6001.00 and 9000.00	0.9
above 9001.00	1.2

Example

Enter the bill value : **6231.25**

The result:

The new bill value is **6175.16**

The discount amount is **56.08**