

# Basic Programs

1. Input a number and check whether it is even or odd.
2. Input a number and check whether it is divisible by 5 or not.
3. Input age and display the message according to the following table:

Age	Message
0-2	Infant
3-12	Kid
13-18	Teenager
19-60	Adult
>60	Senior Citizen

4. Input a number and check whether it is
  - divisible by 5 and 7 both
  - divisible by 5 only
  - divisible by 7 only
  - neither divisible by 5 nor 7.
5. WAP to check whether a year is Leap year or not.  
(input:1900 output: Not Leap Year  
input: 1904 output: Leap Year)
6. Input two numbers and print the largest number.
7. Input three numbers and print the largest number.
8. Write a program to input *length*, *breadth* of a rectangle and calculate:
  - a. Area of given Rectangle ( $area=length*breadth$ )
  - b. Perimeter of given Rectangle [ $perimeter=2*(length+breadth)$ ]
9. Write a program to input *length(L)*, *breadth(B)* and *height(H)* of a cuboid and calculate:
  - a. Volume of Cuboid ( $volume=L*B*H$ )
  - b. Total Surface Area (TSA) of Cuboid ( $TSA=2*(LB +BH +HL)$ )
10. Write a program to input *principal*, *rate* and *time*. Calculate Simple Interest.  
 $Simple\ Interest=P*R*T/100$
11. Input three numbers and print the second largest number.
12. Input a digit and print in words.  
(input: 5 output: Five  
input: 0 output: Zero)
13. WAP to check whether character is alphabet or not.
14. WAP to input a character and check whether it is vowel or consonant.
15. WAP to input any character and check whether it is alphabet, digit or special character.
16. WAP to check whether a character is uppercase or lowercase alphabet.
17. WAP to input *week number* print *week day*.

(input: 1 output: Monday  
input: 2 output: Tuesday

....  
input: 7 output: Sunday)

**18.** WAP to input marks of five subjects Physics, Chemistry, Biology, Mathematics and Computer. Calculate percentage and grade according to following:

*Percentage  $\geq 90\%$  : Grade A*

*Percentage  $\geq 80\%$  : Grade B*

*Percentage  $\geq 70\%$  : Grade C*

*Percentage  $\geq 60\%$  : Grade D*

*Percentage  $\geq 40\%$  : Grade E*

*Percentage  $< 40\%$  : Grade F*

**19.** WAP to input electricity unit charges and calculate total electricity bill according to the given condition:

*For first 50 units Rs. 5/unit*

*For next 100 units Rs. 7/unit*

*For next 100 units Rs. 9/unit*

*For unit above 250 Rs. 10/unit*

*An additional surcharge of 20% is added to the bill*



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