

### **Programs –**

1. Write a code that would convert centigrade into Fahrenheit where C is assumed to be 100 C.
2. Enter the value in seconds and display it in hours, minutes and seconds.
3. Write a program to find the area of a triangle using Heron's formula.
4. Rohit buys t-shirts costing 250 each, shirts costing 900 each, trousers costing 1900 each. He gets a discount of 5% if the total amount is equal and above 5000. Print the bill.
5. Enter the basic salary of a person. If he get Da at 121% of basic, HRA at 2% of Basic and income tax is deducted as follows-  
If salary received > 1,00,000 income tax is deducted at 20% of the total salary.  
If it is less than 1 lakh but greater than 50,000, 5% of the total salary is deducted.  
If total salary is greater than 20,000 but lesser than 50,000 I.T is deducted at 2% of the total salary.  
If it is 20000 > then no income tax is deducted.
6. Prepare a bill on the basis of the following information-  
If number of electricity units consumed is more than 50, no charges have to be paid.  
If it is between 50 and 100, 1 re. per unit consumed.  
If it is between 100 to 200 units , 2.5 re per unit.  
If it is between 200 to 400, 4 re. per unit.  
If it is between 400-800 then 6 re. per unit.  
If it is above 800 then 8 re. per unit.  
Every consumer has to pay a meter rent of Rs.700 and GST is charged at 2% on the number of units consumed.
7. Write a program in which input 2 numbers and print a raised to the power b.

8. Write a program to print the pattern

```
*      *  
      * *  
      *  
      * *  
      * *
```

9. Write a program to print the pattern

```
1  
1 0  
1 0 1  
1 0 1 0  
1 0 1 0 1
```

10. Write a program to print the series :  $s=1+x^2/2!+x^3/3!+\dots+x^n/n!$

11. Write a program in which input a string and check whether it is palindrome or not.

12. Write a program in which input a string and convert the lower case characters to upper case and upper case characters to lower case.