1. Write a program to calculate gross salary for the conditions given below using else-if ladder.

|  |  |  |  |
| --- | --- | --- | --- |
| **Basic Salary** | **DA** | **HRA** | **Conveyance** |
| bs>=10000 | 110% of Basic | 20% of Basic | 500 |
| bs>=5000 && bs<=1000 | 100% of Basic | 15% of Basic | 400 |
| bs<5000 | 90% of Basic | 10% of Basic | 300 |

1. Write a program to simulate traffic charges for reaching different destinations by bus using switch statement.

Source: Tirupati Bus Station

Destinations: Hyderabad - Ticket fare: 670/-

Vijayawada - Ticket fare: 550/-

Bangalore - Ticket fare: 430/-

Chennai - Ticket fare: 180/-

Mysore - Ticket fare: 520/-

Finally GST of 7% on base fare have to add for every ticket Transaction.

1. Write a python program to find the largest among the three numbers.
2. Write a program to calculate commission for the input value of sales amount. Commission is calculated as per the following rules:

i) Commission is NIL for sales amount Rs. 5000.

ii) Commission is 2% for sales when sales amount is >Rs. 5000 and <= Rs. 10000.

iii) Commission is 5% for sales amount >Rs. 10000.

1. Write a python program to check whether the given character is a capital letter or small letter or special symbol or a digit.
2. An insurance company calculates premium as follows:

i. If a person's health is excellent and the person is between 25 and 35 years of age and lives in a city and is a male then premium is Rs.4 per thousand and the policy amount cannot exceed Rs.2 lakhs.

ii. If a person satisfies all the above conditions and is female then the premium is Rs.3 per thousand and the policy amount cannot exceed Rs.1 lakh.

1. Write a python program to determine whether the person should be insured or not and calculate his/her premium rate.
2. Write a python program to check whether the year is leap year or not.