

Task – 1:

Any integer is input through the keyboard. Write a program to find out whether it is an odd number or even number.

Task – 2:

If cost price and selling price of an item is input through the keyboard, write a program to determine whether the seller has made profit or incurred loss. Also determine how much profit he made or loss he incurred.

Task – 3:

Any year is input through the keyboard. Write a program to determine whether the year is a leap year or not.

(Hint: Use the % (modulus) operator)

Task – 4:

Any year is entered through the keyboard, write a program to determine whether the year is leap or not. Use the logical operators **&&** and **||**.

Task – 5:

If the ages of Ahmed, Ali and Umer are input through the keyboard, write a program to determine the youngest of the three.

Task – 6:

Any character is entered through the keyboard, write a program to determine whether the character entered is a capital letter, a small case letter, a digit or a special symbol.

The following table shows the range of ASCII values for various characters.

Characters	ASCII Values
A – Z	65 – 90
a – z	97 – 122
0 – 9	48 – 57
special symbols	0 - 47, 58 - 64, 91 - 96, 123 - 127

Task – 7:

An insurance company follows following rules to calculate premium.

- (1)** 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 the premium is Rs. 4 per thousand and his policy amount cannot exceed Rs. 2 lakhs.
- (2)** If a person satisfies all the above conditions except that the sex is female then the premium is Rs. 3 per thousand and her policy amount cannot exceed Rs. 1 lakh.
- (3)** If a person's health is poor and the person is between 25 and 35 years of age and lives in a village and is a male then the premium is Rs. 6 per thousand and his policy cannot exceed Rs. 10,000.
- (4)** In all other cases the person is not insured.

Write a program to output whether the person should be insured or not, his/her premium rate and maximum amount for which he/she can be insured.