

Lab Exercise 2

1. If a five digit number is input through the keyboard, write a program to print a new number one to each of its digits.
2. Write a program to check whether the given number is even or odd.
3. Write a program to find out largest among any three numbers.
4. Write a program to find out smallest among any three numbers.
5. A sales man gets commission on the basis of his daily sales and the rate of commission is as follows:
Total sales made Commission rate
Below 5000 1%
Between 5000 to 8000 3%
Between 8000 to 11000 5%
Above 11000 10%
Write a program asking his total sales and calculate his commission amount.

6. A departmental store places an order with a company for n pieces of heater, m pieces of toasters and p pieces of fans. The cost of the items are as follows:
Heater : NRs. 1500 per piece.
Toaster : NRs. 200 per piece.
Fan : NRs. 400 per piece.
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The discount allowed for various items are 5% for heater, 15% for fan and 10% for toaster. The company charges 10% as sales tax on all items on net value after deducting the discount. Write a program which computes m, n and p and computes the amount to be paid by the store.

7. 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 or loss he made.
8. Any year is input through the keyboard. Write a program to determine whether the year is a leap year or not. [Hint: The year is leap if it is fully divisible by 100 and 400 otherwise the year is leap if it is fully divisible by 4.]
9. Any character is entered through the keyboard, write a program to determine whether the character entered is a capital letter, a small letter, a digit or a special symbol.

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

10. Write a program that asks a number and tests whether the number is exactly divisible by 5 but not by 11.
11. Write a program that ask the marks of student in five subjects and find out the percentage of marks. The program should rank the student as:
80% and above--- distinction

60% -79%---first division

40%-60%-- pass

Below 40% fail.

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