

Dear Students , you all should write the home work assignment in your home work copy. So that when your copies will be asked to submit offline in school you should not face any problem in submission. You can make two set of copies if needed, one will be classwork copy and other will be home work copy.

First Term Assignment(21-22)

CTA

Question 1. Write the output :-

a. char ch='D';

int n=ch++;

System.out.println(n+" "+ch);

b. int num=100;

num++;

char ch=(char) num;

System.out.println(ch+" "+num);

c. double x=2.9,y=2.5;

System.out.println(Math.min(Math.floor(x),y));

System.out.println(Math.max(Math.ceil(x),y));

System.out.println(Math.abs(y-x));

Question 2 .Write a menu driven program in java:

1. To input a number and check whether it is a NEON number or not.
2. To input a number and check whether it is a Harshad Number(or Niven Number) or not.

[Hints : A number is said to be NEON, if sum of all the digits of the square of the number is equal to the number itself. (for example 9---square of 9 =81. Sum of digits of square 8+1=9)

Harshad number: In recreational mathematics, a Harshad number is an integer that is divisible by the sum of the digits. (for example 18 is a Harshad number because the sum of the digits 1 & 8 is 9 (1+8=8) and 18 is divisible by 9(18%9=0). Few Harshad number are 10,12,21,45,156,171,162,1729 etc].