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Assignment NO-1
Quel > Java program to find number of vowels in the string.
Ans:-
       public class CountVowels {
           public static void main (string [] congs }
                Scanner SC = new Scanner (
                                         Systemin);
   System.out. printIn ("Umesh shailesh");
   String s = sc.nextline();
   char[] c = S. to Char Array ();
   int vowel=0;
    for (int i=0; i < s.length (); i++) {
       if (s. charAt(i) == 'a' || s. char At (i) = 'e' || s. charAt(i) == 'i' || s. charAt(i) == '0'
           11 S. charAt(0=='U')
           vowel++
    System. out. printIn ("Vowels is; "+ vowel);
             Vowels is 5
```

Java program to And reverse a string. public class Reverse } public static void main (stiring[] String string = " umest ji", 11 Store the reverse of given Doing Strong revesed str = "; for (int i = string. length ()-1: i>=0;i-) reversed Str = reserved Str + sting. charAt System.out. print In ("Original String: "+ string); System.out. print In ("Reverse of given string" + reverse); Out put -Reverse of given string; ij hsemu

Que's Java program to reverse a number. public class ReverseNumber } public static void main (string [] 9098) { int number = 732101, reverse = 0; white (number !=0) int reminder = number % 10; reverse = reverse *10 + reminder; number = number /10; System out print In ("The reverse of given number is: " + reverse); Out put. The reverse of given number is: 101237

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Oue 4' Java program to find sum of first no natural numbers. public chass Symof Natural Number Public static void main (string [] args) int i , num = 10 , sum = 0 for (i=1; i <= num; ++1) Sum = sum + i; System.out. printIn ("sum of first 10 Nutury) Output? Sam of first 10 Nautural number is = 55 Sum = n + n+1

DOM: 1 7 e aue-5 Java program to find prime numbers for class primeNumber public class void main (string [] 9095) int ? = 0; int nem = 0; String prime Number = " "; for (i=1; i <=100; i++) int counter=0; for (num = ?; num >= 1; num - -) if (i's num=0) counter = counter +1; if (counter = = 2) prime Numbers = prime Numbers + i + " "; System and prime In ("prime Numbers from 1 to 100 are Out post! prime Numbers from 1 to 100 ove; 2,3,5,7, 11,13 17,19,23,29,31,37,41,43,47,53,59,61,67,71,79,83,

6> Java program to calculate grade of an student. public class student Grade public static wid main (string [] args) int mark[] = New int[6]; float total = 0, avg; Scanner scanner - New Scanner (System.in); System out point [n / " Fotor prescentagernooks); for (i=0; i<6; i++) All student Condein (presentage >=90 } System.out.printin ("Excellent : Grete A"); } else if (prossortage >= 70 {

System out, printIn ("Good; Grede B");} eld if | personage > = 35 } System out point In ("pass; Grade (");} else if (present <= 34 {
Systemous point In ('Fail; Goado -0');} Out put Greer percentige montes Good ; Grade - B

P given number ~ Care 7 public class factorial { A Boy. public static void main (String orgs []) { int i, factorial=1, number; System out priortin ("Enter the number to which you need to find the factorial: "); Scanner SC = new Scanner (systemian); **E** number = Sc. next Int (); 6 for(i=1; i< number; i++)} **(3)** factorial = factorial * i **E** Systemout.ponint In ("factorial of the given number 1 is 13 " + factorial); 6 6 Enter the number of which you need to find the 6 **E** factorial of the given number is; 6 60 1 =

6

Java programs to check whether a year is leap (ace 8 !year or not. Pubric Ches leap year { public static void main (string [] angs) System. out. printin (Enter on year: Scanner SC = new Scanner (system In); Year = SC. next Int (); if ((year \$4 == 0) & b. (year = 100 = 0))

year = 400 == 0)) System out printIn ("specified year is a leap year"); Systemious print In ["spencified year is not a leap year"] Erter on year: Specified year is a leap year.

cauce 9 Java program to check number is palindrome. Bus! public class palandrome public class mun void (strong [] angs). { Scanner SC = new scommer (system in), System out print In [" Input a mumber ""); int $n = \sum SC.nextIn();$ int sum = 0, γ ; int temp = n; colite (>=0) { r= n 10; sum = (sum *10) +r; n= n/10 } if (femp == sim)

System.out.puthtin ("It is a pall notrome number "); Eysters out privation (It is not a pollindrone nowhor) out put: - Est Imput a minder ; It is a polinetrome ourser.

Quelor Java program to check number is Armstrong NO Ans public class Armstrong { public static void main (Stongs) { Int nymber = 153 Int check, rem, sum=0; System out, pointon ("Forter the number") Sconner = New Sconner (systemin); number = sc nextInt(); Check = number; rem = check /6 10; sm = sm + (rem x rem x rem); Check = check /10; } if (sym == number)

Systemout pow'rt In ("Given number is an

armstrony Number."); System out proton (" Given number is not an Enter the summer to be verified Given number is anormstrong Number.