to-7-202U Assignment -01 Sum of natural numbers Public class sum of natural Number 1 Public static void main (string [] args) and make the property of the property of Put 1; num =10; sum=0; The sales Made of the Made of for (?=1; ? = num; ++?) A A MARKAN MARKAN BURA sum = sum +?; broken the + between system outs Printin C'som of first contatural Numbers ? 5 = "4 sum). CHANGE FOR Output: som of first conatural Number is = 55 Given number it is palindrome number or not class Palindrome Examples Public static void moun (string args(J) 2 int v; sum=0; +emp; int n-454; applement part in them + is m temp=n; WW (e (: n >0) 5 8=11/10 50m = (SUM\*10)+8; n=n/10; Pf Ctemp = = 50m) System Out Prints ("Palindrome number);

else system out Printin ("not Palindrome"); autout Palindrome Number Given number 3t is Prime Number or not. Public day maing Public static void main (string[ largs) ? But nom = 29; boolean stag = false; for Cint ?=2; ? z=num 12; ++?)2 if (nom:/1 ==0) { flag = true; that we much break; the modern to modern the modern the modern to modern the modern to modern the moder Output: wen number it is publichers number or not ? f (! flag) system. out. Printin Chum + 475 a Prime number! else system - out, print in Cham + "is not a Prime number." Output 29 is a Prime number

```
N tactorial of a Number
        class factorial example ?
     Rubble state void main (String ang (J) 2
            int number = 5;
        forc?=1; ? == number; ?++){
           fact = fact *?;
      system. Out. Println ("factorial of "4 number + "1";"+ fact);
   Output
                                    ENGLE DOOD Let Chatter
     Factorial of 5 75: 120
                                                gent queste que
    Reverse a number
                                               (10000000)
5.
    Public class reverse number examples
   Public static void main (storinge ] args)
                                      LUGI SE IN VOCEMENT
  int number = 987654, 8 everse = 0;
   Wile (number! =0)
    int remainder = number %100;
     reverse - reverse * 10 + remainder.
       number = number/10;
                                    (++5: 100125 (0 = 1 + 1) ra
    system out priveth ("The reverse of the given number is;" reverse)
Output
     456789
                       4.05 6, 6, 8, 8, 19 3, 3+0, 3+1, NOT
```

```
Armstrong numbers:
        static boolen is Armstrong (intn)
       ? 4+ temp digits = 0, cast = 0, sum = 0;
         temp=n3
      waste (temp >0)
      temp = temp/10;
      digits++;
     temp =n;
      Wile ( temp >0)
     tost = temp 1,10
    5Vm+ = (Make, pow(lost.digits));
      temp = templio;
     if (n== sum)
      return true;
    else return false;
    Rubble static void main (string args[])
    E int main;
      int nom;
    scanner &c=news canner(system. ?n);
    system. out. Print ("Enter the Comit");
     num = scinectiut(3);
  system out print ("Armstrong Number upto "+num+"are)
      for Cint ?-0; ? Lnow; ?++)
         if C3 Armstrong (i)
     system out print (?+",");
Output enter 999
Armstrong number upto 999 are
  0,1,2,3,4,5,6,7,8,9,153,370,371,407
```

```
slappy number
                           Municipal of some
         det is Happy Number (num);
        rem = sum=0;
          while (nom 70);
           8 em = nom 1/10;
            Sum-sum & Crem * rem);
            num = numllio;
            return sum;
            num=82;
             result = sum;
       while ( result + = 1 and result ? = 4);
          result = 25 Happy Number (result);
            if Cresult == 1);
            Print(str(num) + "is a happy number").
        elt (result == u);
       Print (strchum)+"is not a happy number");
   Output
     82 is a Gappy number
 Sum of the digits.
  Public static word main (string argues)
  int number, digitsum=0;
 scanner sc=newscanner (system; in);
  System out Print ("Enter the number:");
   number -scinext into;
  while (nomber 70)
digit = number $10;
SUM = SUM + digit;
number = aumber 1,10.
```

```
system out Println ("sum of digits; "-esum);
      Output.
      Enter the number: 876
        Elm of digits; 21
  9. Number divisible by 5 and 7
     import java util
     Class GFG 3
     Static int Number (intn)
    tor (3n+ 3=1; 32n+1; 3++)
    if (31/15 == 0 1131/17=40)
       system out print (14" ")
   return;
                     stremmer is not a happy number"
  Public startic void main (string args (3)
  34 N =50;
   NUM GEM (N);
Output:
                             Scounce of wereseconie, (2) con in)
           14 15 20 21 25 28 30
                             28 30 35 UO 42 45 49 50
```

```
Refect Number
      Public static void main (string args(7)
     long n. sum =0;
     scanner sc= new scanner (system. in)
     system.out. Print ("enter the number");
       n=sc nextlong();
                             Num relle abs carbs polyeks
       Put =1;
                       Meno Balling I want ( Exertal Ed and 2)
    While (?2=4/2)
   (3/(n/1, ?==0)
                               111 a - 20, b = 30 Jed value
                                  deg region & deep compile
                       them out with in C GCD = + gcd va
                         Just 4, = 1431 Just 20 10
   if (sum==n)
  system.out.print(u+"is a perfect number.");
 system out print in (nx" is not a Perfect number.").
 Output.
 enter :28
28 is a perfect number.
GCD and LCM
  import java, 10,*
 class GFG {
  Startic int god (inta, intb) ?
                                            it had jobers
```

```
if(b==0)
                                                * Andrew
         return a;
                            static void meets Catalog age ?
       else
          return gcd Cha /d);
       Static But LCMCPorta, Put by Put god value
        refurn math. abs (a+b) /gcd whe;
                                           in so mentionally
       Rublic static void main (string (g argy) 2
                                               ن لو و دو دواد)
         int a =20, b=30, gcd value,
         ged value - ged (a,6);
                                                  (0==17R)
        system outpoint in ("GCD = " + gcd value);
      system out printin C"LCM ="+ (cm Ca, b, gcd value);
    Output
      GCO=10
      LCM = 60
                       lem out print En " is a ported number
    Decimal to binary
      Static void decto binary (int n)
   int [] binaryoum = new int [1000];
       int ?=0;
    War (e (n >0)
                                                       profes
  Binary Nom Cij = n'1,2;
     ninf2;
                                             ED and LCM
    『七七
                                        THEPOT INVOITOR
for Cont 328-1, 322033--) and who beg to shook
```

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system out print (binary NUMGJ);
     Public static void main estringe Jargs)
     Put n=17; 100101013 2 hand of at properly and in the land
     system.out. Println ("Decimal-"+n);
     System. out. Prind ("Binary-");
     dec to Binary(n);
                                           Was to Fathern head
                                      White class remperhase
   Output
                         a select hope major a wall a select to
     Decimal - 17
    Binary - 10001
                                    Mark Falagertist, colores
   Brary to decimal
     class GFG 2
     static Put binary to decimal antin)
                                  green and spendled leagurether
    int numen;
     int dec-value=0;
    "int base = 1;
    out temp = nous;
    waste ( temp = 0) &
   int bost-digit = temp 1.10
   temp -templio;
   dee-value + = last-digit * base,
   base = base #2;
return dec-value,
```

```
Public state void moun (string c Jargs)
        int nom=10101031;
       system out printin (binary to decimal (10101001));
      Output
      Celsous to Fahrenheit
       Public class temperature
     Public static void main (string args())
      float Fahrenheit; celsius;
       Celsius=13;
      Fahrenaeit = ((celsitus*9)15)+32i
    system.out. Println ("Temperature in fabrealieit is= "+ Laborenheit).
    Output
   Temperature ?n fohrenheit Ps; 55.4
 Sum of odd numbers and even numbers
   import java. ?0, x.
   Public class a Fa &
   Public static void main (string [) args)
 ?ut n=8;
 int even sum = 0;
int add sum=0;
```

```
for (3u+ 3=1; 3c=2*n; 3++)2
      1/((121)==0)
     ever som += ?; ( ) part ) whom the miles
    Oddsom +=?;
  System. out. Printly ("som of Arst" + u + u even numbers = " + evensum);
  System. out. Print In C"sum of First 4 n + "odd hombers = " 4 odd sum).
   Ocutput.
   sumoffirst 8 even numbers = 72
  sum of first 8 add numbers = 64
                                           Storm and made
  Even orodd
   classever-odd 2
     Public static voidmain (stringes args)
   Put n=5; even sum =0, oddsum =0;
   for ( ?nt ?=1; ?2-2*n; ?++)2
   4 (C(21) ==0)
   even sum +=?;
   edd sum +=?;
                                      for one exclipse for note
                                        smoother pro month
 system out, Print lu C'sum of First"+ n + "even nombers = "+ even sum);
system out printly ("somet first" + " odd numbers = " + odd sum);
Output
Sum of first 8 ever numbers = 72
sum of Arst 8 odd numbers - 84
                                       Went Det. Landly CCP
```

```
Voting
       class voting age
        Public static void main (string [] orgi)
       int age;
       scanner se = new scanner Csystem. In);
system out print ("cater your age");
           age - se next Int ();
          If (age >= (8)
      systemont. Printly C'you are eligible for vote.");
    else
    system out. Printen E"you are tout eligible for vote.").
 Output
  Guter=19
                                                 12 = 7 mes miles
   you are eligible for vote
vavels and consonants
   class vowel consonanta
                                          septem out, Part les (" som
   Public static void main (string () args) 2
 ?f (ch == 'a' ll ch == 'e'/kh== '?'//ch == 'o'Hchzz'u')
system. out, print/ncch + " Psvowel") WIN NOVO 8 1111 10 MINE
system. out. Println (ch+ "is consonant");
```

```
output
      1 Ps vowel
                                   Subjectives that Released in
 19
    strong number
                        Peblic static word means ( frequence
      class test ?
                       commence there seems sometimes sometimes
     Public static void main (string Clargs)
     int sum =0, i, r, fact, number;
     System out print in C"Enter a number:");
       number = in. nextlut().
      Ent Original = number;
     While Coumber >0)
    8= number 1/2 to;
    fact=1;
    for C?= 1; PZY; ?++)
   fact = fact x ?,
 sum = sum + fact;
 number = number/10;
 if Coriginal = -sum)
 system. Out, Println ("strong Number");
else
 system. out, printly ("Not strong number");
output
```

20 squaresat & cube root import java. util. Scanner; Public class Roots Calculator & Riblic static void main (string() orgs) { Scanner scanner = new scanner (system. in); System, out. Println C'Enter a number, "); double number = scanner, next Double 1); double squarePost = Moth, Sqx+ (humber). double cubicRoot = Mathicby+ (number); System. out. Println ("square root of "+ number + "?s;" + quare root) Systemious Println ("Cubic not of "+ number +"?s;"+ cubic Roots; Output.

42= 16 23=8