Sum of Nnumbers upto n:
O. unbers upto n:
Public class dun of Naturalnumbers 5
P. Maturalnumbers S
Public Static void main (Ostring [] arg)
2
int $n=10$;
ent sun=(n*(1))
frinten "sum of natural
numbers up to "+n+" is: "+ sum);
3
3
The Given number is frime number or
rot:
Public class mains
Public Static void mais (String[]
args) S
ent number = 2a;
boolear isprine = brue;
if (number 1=1) \$

is frime = false; 3 else \$ for (int i=2; i 1= math, staget (number); et (number 1/1 1==0) { is frime = balse; system. out. Println(number + "is a prime number. "); else (System. out. Println (number +" is not a frime number . "); orial of N number:-

```
Public class factorial catalator &
  Public static void main (string[ ] args) ?
     int number = 5;
     long factorial =1;
     for (int i=1; i = number; ++i) {
         factorial * = 1;
  System. Out. Print In ("Factorial of" + nun + "="
                                    + factorial);
Reverse a number :-
Public class Reversenumber S
    Public static void main (string [] args) ?
        ent number = 12345;
       int reversed number =0;
      while (number! =0) of
         int digit = number 1/10;
         reversednumber = reversednumber *10 + digit
          number /= 10;
```

System.out. Purt In ("reversed number: "+ reversed Arnstrong number :-Public class armstrongnumber { Public static void main (string [] args) } int number = 153; int originalnumber, remainder, result=0; original number = number, while (original number)=0)5 remainder = originalnumber = 1.10; result 1= math. Pow (remainder, 3); Originalnumber /= 10; ils (result = = number) System. out. Patrition (number +1 is an Armstron number !); else

```
jappy Number:
  Public class Happynumber &
    Public boolean is happy (int n) {
     set / Integer > seen = new Housh set Z>();
  while (n!=1 & &! seen. contains (n)) {
     seen. add (n);
     n= getnerct (n);
return n = =1;
 Private int getnest (int n) s
    int totalsem= 0;
    while (n>0) {
     int digit = n-/, 10;
      n=n/10)
      totalsum + = digit * digit;
  3 return totalseen;
```

Palindrome number: -Public class Pallindromenumber & Public Static boolean es palindrone (Ert numb int reversadminter = 0; ent originalnumber = number; revorsednumber = reversednumber * 10+digit. setur originalnumber == reversedrumber, 8) Sum of degits: -Public class dum of Degets & Public static word main(string [] curgs) s inte number = 12345; en Sum=0; while (number !=0) { Sum t= number 1/-10; / number /=10;

Divisible by 5 and 7 cyclon. Public class matris public static world main (string [3 args) } int n= 100 ; System. out. Print In ('numbers divisible by 5 and 7 ypto"+n;"); for (int i=1; i =n; i++) s 22 eb (17-9==0 991/-7==0){ system.out(Print)(i+""); Perfect number upton: Public class perfectrumber & Public static void main (string[] args) & int n= 10000; System. out. Println ("Perfect number up to " +n+ ":");

```
for (int i=1; 12=n; i++) {
       et (isperfect (i)) §
         system. out. Println (i);
   Public static boolean isperfect (int
    int Sum=0;
  for (int i=1; i1=num/2; i++) §
     éb (num / 1==0) §
Fabbonaci:
   Public class fibonacciseries &
       Public static void main (string[] args) of
       int n= 10;
      int firstern = 0;
      int secondterm=1;
```

```
System. out. println ("Filsonacci Series:");
  For (int i=1; iL=n; i++) &
    dysten. out. Print (birsttern +" ").
    ent next term = First bern + secondbern;
    first bern = secondtern;
   second term = nexteern.
GCO :-
  Public class (CD &
    Public static intercalculate (100 (int num),
       int-houn 2) §
       il (num2 ==0) {
           return @ num!;
      return calculate(CO(num 2, num 1./-num2);
```

Public Estatic void main (String[] arg int number = 48; int number 2 = 18; int gcd = calculate GCD (number), rung System. out. Printiln ("aco of" + number+" + number 2+ 1/4: 13) LCM:inport java. Util scanner; Public class Lcmcalculator { Public static void main (string [] a Scarner input = new Scanner (dyster system. out. Part Finter first number! ent num 1 = input. next int (); system. out. Print ("Enter second numb int num2 = input. next int (); int ged= findGCD (num1, num2); int lem = (num1 * num2)/ ged;

```
System. Out. Println ("The land of" + num +
             "and" + num2 + "is: "+ Lcm);
   Public Static int findCrCD (inta, intb);
       Ut (b==0) {
         return a;
       return finderco (6, a.1.d);
Decimal to Binary conversion:
  Public class Decimaltobinary &
     Public static void main ( String CJargo)
        irt decimal =10;
     system. out. Be Println ("Decimal:"+ decimal);
     system. out. Println ("Binary:"+Integer.
                           tobineouystring (decinal));
```

5) Binary - decimal All in the above Public class Binary to decimal converter & Public static void main (string [] args) { String binarynumber = "101010"; ist decimalnumber = Integer. Parseint (Birary System. out. Println ("Binary number: " + binary system. Out. Println ("Decimal number: "+ decinatrumber 6) de celèions to farreride: Public class celsiustofahrenheit & Public static void main string [] surgs); double celsius = 28-0; double barrenteit = (celsius + 9/5) +32;

```
Fahrenheit to celsius:
  Public class Fahrenheithercelslus,
     public Static void main (string [] args
      double bahrenleit = 98.6;
       double celsess = (fahrenheit -32) * 5/9;
   System. Out. Println (bahrenheit + "Fahrenheit
  is equal to" + celsius + "celsius!");
leap year: -
 infort java utill danner,
Public class teapyear &
 Public Static void main (stringer args) s
   Dearner injut = ver scarrer (system. In).
  System, out. Print ("enter a year: ");
  in year = infant . nest Int();
 if ((year 1/. 4== 0 cy cy year 7, 100 1=0)11
                           (year -/. 400=0))
```

System. out. Birt In (year + " is a leap your. 1); 3 else & dyster. out. println/ year +" is not a leap year "); Sand and of votiny:-Public class votingeligibity ? Public Static void main (string [] args); int age = 18; ib (age > = 18) & stysten. Out. Println ("your one eligible to vote."); 3 else é slysten. Out. Printen ("po you are not eligible to vote yet. ");

sur ob savare Root of a number inport java lary math; public class Rootsum calcutation & public state void main (string() args); double number = 64.0; double Bquareroot= meth. Sart (number); double cuberoot = math. (brt (number) double dun = square Root + tubroot;

2 dample on fort