## Easy programs (1-15)

1. Reverse a word

public class Reversestring for coop example f public static void main (string[] args) & String input = "Temple";

String reversed = " ";

for (int i=input·length()-1;j>=0;i--)& reverseo(+=input.charAt(i);

system·out·println("Original string: "+ input); system. out println ("Reversed string: "+ reversed); moon availities anner-

bublic class lieverse Number

public static void main (strong () an Sciencers = new scanner (system in);

## 2. Username is valid or not

or import jowa util scanner; = 19 driver in public class user-Authentication Statem, on built ( , year

public static void main (string args())

string username, password; scanner s = new scanner ( system in); system out print ("Enter user name: "); username = s-neatline(); system out print ("Enter password:"); password = s. nextline (); if (username equals ("user") & password equals
("user"))

system.out.println("Authenication successful")

```
else
    system out print ("Authentication Failed"):
                 JAYAND INGM : +
             ·Reverse a Number
import java·util·scanner;
public class Reverse Number !
     public static void main (string [] args) {
        Scanner s = new scanner (system-in);
        System out print ("Enter a number:");
        int number = scanner · next Int();
        int reversed Number = reverse Number (number);
        System out print In ("Reversed number: "+
                  reversed Number);
          public static int reverse Number (int num) ?
            int reversed Num = 0;
       while (num; =0) (
      int digit = num % 10;
              reversed Num = reversed Num *10 + digit;
      num = num /10;
            return reverseolvum;
```

System out print In ("Authorication

```
4. Eligible for vote or Not
import java·util·scanner;
public class votellibility &
    public static void main (string [] args) follower
    Scanner scanner = new scanner (system in);
     system.out.print ("Enter your age:");
    int age = scanner next Int ();
     check vote Eligibility (age);
                             int icm (int x ; m
    public static voior check vote eligibility (int age)?
       if (age >= voting Age) { } (p=x)= n
       int voting Age = 18;
       system-out-println (" you are eligible to vote!");
      y else g
        int years left = voting Age-age;
        system. out println ("Sorry you are not
        eligible to vote, you will be eligible in "+ YearsLeft+
" years.");
          public static void main (String args (1)
      scanner input enewscanner (system in)
   ystem out pointln ("Enter the two numbers
             65. LCM & GCD OF a Number
 import java util scanner;
 public class GCD-CCM De Inthiventura de la
          System out printin ("LCM:"+LCM (x.)
    static int gcd (int &, int y) ( ) soob began
      int r=0,a,b;
      a = (2 > y) ? x; y;
```

b = (2(y) ?2:4;

```
while (a % b ( = 0)
     r= a % b;
    return r;
  static int lcm (int &, int y)
    int a;
    a=(2>y) ? 2:4;
while (true)
                  out workling (+1) on are
    6
      if (a % 2 = =0 & & a % y = = 0)
     return a; mos mining hor
में के किम्बर्ध के को बोलकोंक उर्व अवस्था प्रवाद के बाद
     public static void main (string args ())
      scanner imput = new scanner (system in);
      system.out. println ("Enter the two numbers:").
      int & = input next Int();
      int y = input · next Int();
      system.out.println ("GCD: "+ gcd (x,y));
       System · out · print In ("LCM:"+LCM (2,4)),
      input·close(); (y trans tra)
```

```
6. Right Triangle star pattern
 import java util·scanner;
  public class Right Triangle pattern &
       public static vold main (string (1 args) ?
       scanner oc = new scanner (system.in);
       system out print ("Enter the no of rows:");
       int rows = scanner next Int ();
       for (int i=1; i <= rows; i++) 6
       system-out print (* ) jod fasus casis silany (
       tic void main (thing 1). argof
       system.out.println();
      Game = find Even from account = muc
       System out : print In ("Sum of even Fiboriacy
       numbers up to "+1+"; "+evenound;
             7. Print patternono situato Mang
                            of the diam breat
import java util scanner;
public class pascal Triangle 6
   public static void main (string (1 args) 6
      scanner oc = new ocanner (oyotem.in);
      system out print ("Enter the no of rows for
         joaocal triangle:");
       int rows = scanner next m();
      for (int i=0; ixrows; i++) ?
       int number = 1;
       for (int j=0; j< rower, j++) (
       system out print (" ");
       for (int j=0; jx=1;j++) {
       system out print (number +");
       number = number *(i-j)/(j+1);
```

```
System out println ();
                     ic void madin
                    mada com sa
               iters as exenter the
          9. Sum of Evenfibonacci number
9) public class Evenfibonaccisum (
    public static void main (string []. args) ?
    int n = 100;
    long even sum = find Even-fibonaccioum(n);
    System-out-println ("sum of even Fibonacci
     numbers up to "+n+": " + even sum);
     public static (ong sum (int n) f
        tong a=0, b=1, c=0, evenoum=0;
         while (c<=n) { } person and
         c= a+b; main prov situte sile
     if (c°/·2==0 &&c<=n) {
            evenoum + = C;
         a=b;
                      till governing i just
         b = C;
         return evensum;
```

```
10. Skipping & number from M to N
public class skip Numbers for his surpi trogmi
   public static void main (string () args) (
     public static void main (string 10tam this
     int K=3;
    print Number skipping (m,n,k);
 public static void print Numbers scipping (int start,
      int end, int skip) ?
   for (int i= start; i<=end; i+ = okip+1) f
    system out print (i+" ");
```

## 11. Matrix addition

public class Matrix Addition f

public static void main (string (1 args) {

int [][] matrix1 = [{1,2,33}, {4,5,63}, {7,8,9}];

int [][] matrix2 = {{9,6,73}, {6,5,4}, {3,2,1}];

int [][] reoult = add Matrices (matrix1, matrix2);

system out println ("Matrix1:");

system out println ("In Matrix 2");

system out println ("In Matrix 2");

system out println ("In sum of Matrices:");

display Matrix (matrix2);

system out println ("In sum of Matrices:");

display Matrix (result);

```
Rectangle Symbol pattern
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import java util scanner; public class Rectangle symbol pattern

public static void main (string (1 args) { Scanner scanner (system-in); System.out.print("Enter the symbol:") String symbol = scanner nextline (1; System-out. print ("Rows:"). int rows = scanner-nextInt(); System-out:print ("columns:"); int columns = scanner.nextInt(); print Rectangle pattern (sy mool, row, whenne). Scanner close ();

14. Matrix Multiplication

public class Matrix Mul & public static void main (string args []) { int a(7(7= 991,1,13, {2,2,23, {3,3,33}; int b(](]= { [1,1,13, {2,2,23, {8,3,333; int c()()= new int (3)(3); for (int 1=0; i<3; i++) ( for (int j=0; j<3; j++) { the page of c(i)[j]=0; for (int k=0; k <3; k++) man palgore system out print in ("In ourm of Inla c(i)(j]+=a(i)(k] \* 6(k](j); on procio

system-out-print (c(i)[j]+"");

```
system out println ();
          15 print pattern
import java util scanner;
public class patternprint q
     public static void main (string () args) &
      scanner oc= new scanner (systemin);
      system.out.print ("Enternumber:");
     int num=scanner-nextInt();
       System-out-print ("Max Number of times:");
      int max limes = scanner (rextInt();
       print pattern (num, max imes);
       scanner ·close();
        public otatic void print pattern (int num, int max
        for (int i=1; i = max lime == 1; i++) &
            int current = (ix=max Times)? i:max
            Times * 2-1;
              for (int j=1; i <= current; i++) {
              System. out print (num);
             System.out.println();
```