Aim: To write a Java program for Calculating Students grade based on marks Pseudo Code: Step 1: initialite the variables Step 2: get the input marks from the user Step 3: based on the marks category assign the grade for eg if marks 790 grade- A Step 4: Print the grade Program: Package assignment; import java-util. Scanneri Public Class Grade { public Static void main (string[7 args) { Scanner input = new Scanner (System-in); System. Out. Jorint ("enter your marks: "); int m = input·nextInt(); char grade: if (m>=90) grade = 'A'; else if (m < 90 && m>=80) grade = 1B'i else if (m 280 22 m = 70) grade = 'C';

else if (mz 70 & e m > = 60)

grade = 'D';

else

grade = 'F';

System-out-print ("Grade = "+ grade);

y

Sample Output:

enter your marks: 74
Grade = C

2 | Aim:

To write Tava program for guessing a simple number between 1 and 10

Pseudo Code:

Step 1: assign the Variables

Step 2: Using random function assingn any number between 1 to 10

Step 3: ask the user to guess that humber-give 3 chances to user using for loop

Step 4: if number is Smaller, greater or equal print the Statement

Step5: If user lost then print the System guessed number

```
Program:
import java-util- Scanneri
public class number-guess {
  public Static void main (string[] args) {
     Scanner input = new Scanner (System-in);
     Random random = new Random();
    System-out-print ("quess any number between 1 to 10: ");
    int r = random. next Int (10) + 1;
    int i'i
   for (i=0;i63;i++)
       int a=input·nextInt();
       if ( >a)
          System. out. print ('too (ow");
      else if (rza)
      System. out-jorint ("too high");
      4
      else
       5
        System out print ( "you win ");
        System exit (0);
        4
       if (i(2)
       System.out.jorint ("Intry again: ");
      y
```

```
if (1>=3)
         System-out-print ("In you lost In System guessed "+r
                      + " Better (uck next time");
Sample output:
guess any number soutween 1 to 10:7
too high
 try again: 5
too low
try again: 8
too high
you lost
System guessed 6. better luck next lime
```

3. Aim:

To write Tava Program for generating and displaying the multiplication table

Pseudo Code:

Step 1: Initialize the Variables

Step 2; get the input number from the user

Step 3: using for loop generate the multiplication table by multiplying i with number

steph: chisplay the multiplication table

```
Program:
import java-util. Scanner
public class multiplication-table {
   public Static void main (string[] args) {
       Scanner input = new Scanner (System.in);
       System. out-print ("enter the number: ");
       int a=input-next Int();
      for (int 1=1;i210;i++)
        System. out. printin (a+ "*"+i+" = "+a*i);
    4
  4
Sample Output:
enter the number: 7
```

7 + 1 = 7

7 * 2 = 14

7 + 3 = 21

7 + 4=28

7 + 5=35

7 *6=42

7 *7=49

7 + 8= 56

7 + 9=63

7 * 10=70

```
4. Aim:
      To write Java Program for Even and Odd Counter
   Pseudo Code;
  Step 1: initialize the variables
  Stepa: declare some numbers in array.
 Step3: Check each number is divisible by 2
  step 4: if divisible then it is even else it is odd
          number
 Hogram:
 import java util- Scanner;
public class even-odd-Count s
  public Static void main (String[] angs) {
      Scannes input = new Scannes (System-in);
       int[] a = {2,3,4,5,6 };
       int ec = 0, oc = 0;
      for (int i=0; ica-length; i++)
      f (a[i] % 2 = =0)
         else
          0(++)
```

System · out · print ("number of even numbers = "+ec);

System · out · print ("number of Odd numbers = "+oc);

4 4

```
Sample Output:
number of even numbers = 3
number of odd numbers = 2
Aim:
    To write Tava program for Simulating a Casic
 ATM System
Pseudo Code:
 import java-util-Scanner;
 public class atm &
    public Static void main (String[] args) {
      Scannes input = new Scannes (System.in);
       int i = 1000i
       Soolean Ch = true;
       While (ch) {
        System-out-println ("Choose the Operation in 1- Deposit in
                             2. With Drawin 3. Check Balance (4. exit");
         int a=input·nextInt();
         if (\alpha = = 1)
        { System. Out. print ("enter the amount to deposit: ");
          int d=input-nex+ Int();
           in+=di
          System-out-point ("InAmount Deposited Successfully");
        esse if (a = = 2)
          System out print ("enter the amount to withdraw: ");
```

int W= input. next Int(); if (in >w) in-=wi else System. out. print ("Insufficient Balance In"); System. out-print ("Bolance updated Successfully (n"); 4 esse if (a = = 3) System-out-print ("In Your Balance: "+in+ "In"); 4 else Ş System.out-print ("Closing...."); System. exit (0); Sample output: 1. Deposit 2. With Draw 3. Check Balance Choose the operation 4. exit enter the amount to deposit : 200 Choose the operation: 2 enter the amount to withdraw: 150 Balance updated successfully Choose the operation: 3 Available Balance: 1050 Choose the operation: 4 ching)