Assignment - 1

Design a gova program that takes a optudent of score as input and outputs the Corresponding grade using an if - else control structure.

* To write a program for the student's opcore and Corresponding Grade.

Poendacode:

step 1: Declare a variable to stole the student's socie.

step a: Initilize the user to enter the student's ocole.

step 3: Read the oftudent's score and store in variables

stepy: If the scale Assign glade A "B" C", D" F"

steps: user else if function.

step 6: output the grade.

Code :-

import java util. Sanner; public class student Grading system ? scammer scammer = new scammer (system.in); System. out. print ("enter a student's score"); int scale = scanner. next Int();

```
3 while (play Again. equel 33 Ignae (ase ("yes"));
esystem. out. print In (" Thamks for playing!");
scanner. close();

3.

cutput:

I have selected a number between 1 and 10. Can
you guess it?

Enter your guess:5

Too Low
Enter your guess:8

To high
Enter your guess:7

Correct 1
```

3. Greate gave progrem that takes a number as imput and uses a fol Loop to Generales and print the multiplication table for that number (from 10010).

Aim !-

Generates and print the multiplication table.

Poseudacode:

* Initilize the table and the numbers

the row market

```
Pseudocode:
 step: Initialize a boolean variable
 stepa: while "play Again" is true:
 step 3: Generate a random number and counter
  Attempts to o.
 step4: Det a boolean variable and print a
step 5: For i' from o to 2
          Else if And Else.
step 6: If "guessed Colrectly" print prompt the player
step 7: Display the output.
Lode:
    umpost jeva util . Random;
    import java util. Sonner;
   jublic class Number Game f
       public static void main (string [] args) {
         decanner scanner = new escanner (egystem in);
         esturing PlayAgain;
    If (! guessed Correct In) {
           By stem out paint on (" solay, the correct
                    number was "+ random Num)
```

Aim !-

To write a odd of Even number using Loops.

* Initilize the enter the dise of the away.

* For Loop "for " Loop impide the Loop if checks each number.

If the num is odd (not Divible by a)

It increments the "odd Count"

Display the output.

Code :-

jublic class Even Odd ?

public static void main (strung [] args)?

peanner scanner = new scanner (system.

for (int i = 0; i < sige; i++);
int num = scanner. next In ();
if (num /. 2 == 0);

even (Count++;

y else;

odd (Count++;

7

```
Generate a number with fol (int i=1;
         i 2=10; i++) {
      print the numbers and System out print.
      Display the output.
    * End.
         your spo to soil a go palme ago a sistint
  Code !- 1
    import java. util. Scanner;
    public class Multiple Table ?
        public static void main (strung [] ags) {
        Sconner scanner = new Scanner (objetem in);
       System. out. print ("enter a num 1");
       int num = scanner. next Int();
       for (int i = 1; i = 10; i++) {
           System. out paint In ( num + x + + + = +
               (num * i)):
         scanney. close():
output;
  num = 2
  2 \times 1 = a 2 \times 9 = 10 2 \times 9 = 18
  d \times d = 4 d \times 6 = 12
  dx3 = 6 \qquad dx7 = 14 \qquad dx10 = 20
  dx4 = 8 dx8 = 16
```

```
Code :-
        import java. util. Scanner:
       public class Banks
          Public static void main ( strung [] args) {
          Scanner scanner = new scanner (egystem.in);
          double balance = 0.0;
         boolean running = true;
       while ( aunning) {
            switch (choice) {
                 -case 1:
                  system.out.print In l'aurrent relance;
                             4 "+ Lealence);
                 bleak.
                 case & ,
                   edystem.out.paint In ("Enter amount to
                            oleposit : $ ');
             3 break;
              case 3:
                  system.out.print In ( " enter amount to
                                withdraw; $ ");
                 break ;
                default;
                 sconner.close (); } }
output: Banking Menu: 1. Check Balance a. Deposit Money
                    3. withdraw yoney 4. Exit.
```

out. print In (even num; + even Count). system.out.print In (odd num: + odd Count); Integer : 1, 2, 3,4 even 12 odd: d. 5. Simple ATM Simulation. Aim :-To write a java program to allow users to Check their balance, Deposit, Money or withdraw money . Pseudocode: step 1: Initilize the variable, scanner with Banking Menu. stepa: Double balance and uses boolean sunning function. step 3: Loop while, switch to calculate the Balance, Deposit, Money and withdraw. step 4: Display the output.

```
char grade;

If (scale > = 90) {

    grade = "A";

    else if (scale > = 80) {

        grade = "B";

    }

    else if (scale > = 70) {

        grade = "c";

    }

    System. out .print In ("The student's grade is:"+

        grade);

    scanner. close();

}

output:-

Input scale = 95
```

The student's grade is: A

Implement a jeva program that Generates a rondom number between I and 10. Use a for loop to give the player three Attempts to guess the number.

Aim 1-

To write a program that Generates a random number between 1 and 10.