Assignment - 01

CSA : 0914 Java programming

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(1) Aim :- To write a Java program for student Grading system:-

Code:-

```
import java.util.scanner
public class
student Grading system{
    public static void main(string[] args){
     Scanner scanner =new scanner (system.in);
     Char continiue Input;
     do{
System.out.print("Enter a studen's score:");
      char grade;
If (score>=90){
     grade = 'A';
} eles if
(score >=80){
      grade = 'B';
     }
eles if (scorce>=70){
      grad = 'c';
   }
else if (scorec >=60){
     grade = 'D';
  }
else
 grade = 'F';
    }
System.out.Println((Crande
    +grade);
System.out.print(Do yo want
 to enter another score
(Y/N):");
}
}
```

(2) Aim :- write a Java program to Number guessing game :-

code :

```
import java.util.Random;
import java.util.Scanner;
public class
NumberGuessingGame{
  pubic static void
main (String[] args){
 Scanner scanner =
new Scanner(System.in);
Random Random = new Random();
   char playAgain;
      do{
   int numberToGuess =
random.nextInt(10)+1;
    Int guess;
boolean
guessCorrectly=false;
System.out.println(
have choosen 1
and 10 guess
it")
for(int i=1; i<=3; i++){
System.out.print("Attempt "
+i+":");
guess = scanner.nextInt();
If (guess == numberToGuess){
System.out.print("correct
! you guessed it in "+i+
"attempt.");
guessCorrectly = true;
      break
} else if (guess < numberToGuess){
System.out.print("too low");
} else{
System.out.print("too");
System.out.print("Do yo
want to play again
(Y/N)
playAgain = scanner.next().
charAt(0);
} while (playAgain == 'Y'||
playAgain == 'N'
}scanner.close();
}
}
```

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Multiplication Table Generator

code :-

```
import Java.util.scanner;
public clay
MultiplicationonTable {
    public static void {
      scanner scanner = new scanner (systemin);
system.out.print ("Enter the number");
  int number =scanner.nextInt();
System.out.print ("Enter range for mul ");
   int range = scanner.nextInt();
for (int i=1; i<=rang; i++){
 sy.stem.out.println (nwber + 'x" +i " ="+(number * i));
   }
scanner.close();
}}
```

(4) Aim :- Even and odd number counter

code :-

```
impor Tava.util.scanner;
public clay EvenoddCounter;
{
public static.void main (string[] args] {
 scanner scanner = new scanner (system.in);
system.out.print ("Enter the number of elements
   in the array:");
```

```
int n = scanner.nextInt();
Int evenCount = 0, oddcount = 0;
int evensum = 0, oddSum = 0;
sy.stem.out.println ("Enter the elements:");
for (int i=0; i<= n; i++) {
numbers[i] = scanner.nextINT();
If num (i] %.2 == 0) {
even Cout ++;
even sum += numbers [i]
}else
odd count++;
@dsum += nurber[i];
} }
System. out. print( Even count:" + even cout + odd cout:" +
odd count);
System.out.pritlal "sum of even nuber : " + evensum +
" sum of odd : " + oddsum);
scanner.close();
}
]
```

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Simple ATM simulation

```
import java.util.scanner;

public class ATMSimulation {
    public static void main(string[] args){
        scanner scanner = new scanner (System.in);

        double balance = 1000.0;

        int choice;

        do{
System.out.println("ATM Menu: ");

system.out.println("1. check Balance");

system.out.println("2. Deposit money");

system.out.println("3. withdraw Money");

system.out.println("4. Exit");

System.out.println("choos an option");

        choice = scanner.nextInt();

            switch(choic) {

            case 1:
```

```
system.out.println("current balance: $" + balance);
  break;
case 2;
system.out.print("enter the deposit Amount");
  double deposit = scanner.nextInt double();
  }
system.out.print("enter deposit" + deposit);
  }
  case 3;
system.out.print("enter withdraw : $");
  double = withdra = scanner.next Double();
  }
  case;
system.out.println("Invalid option please choos
  again
system out.println();
      } while (choice != 4);
    scanner.close();
      }
    }
```