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CSA0914

Assignment - 1

1) **Aim :-** To write a Java program for calculation student grade based on marks.

Pseudocode :-

Step 1 :- Initialize the variable

Step 2 :- get the input mark from the user

Step 3 :- Based on the mark category assign
e.g if marks > 90 grade = A

Step 4 :- print the grade.

Program :-

```
Package assignment;
import Java.util scanner
Public class Grade {
Public static void main (String [] args)
    system.out.Println("Enter your Marks");
        int M = int.NextInt();
        char grade;
        if (m >= 90)
        grade = 'A';
    else if (m < 90 & m >= 80)
```

```
else if (m<80 && m>=70)
    grade = 'B'
else
    grade (.m<70 && m>=60)
    grade = 'C'

system.out.Println("Grade =" + grade);
}
}
```

O/P => Enter your Marks = 90
Grade = A

2) Aim :- To write java program for guessing a simple Number between 1 and 10

Psendocode

Step 1 :- assign the Variable

Step 2 :- using rand function assign any Number 1 to 10

Step 3 :- ask the user to guess given to user using for loop

Step 4 :- if Number is smaller greater or print the statement.

Step 5 :- If lost then print the system Number

Program :-

```
import java.util.scanner;
Public class Number.guess {
Public static void main (string() args);
Scanner input = New Random();
system.out.Println ("guess 1 to 10;")
int r = random.Next Int (10) + 1;
    int i;
for (i=0; i<3; i++) {
int a = input .Next Int ()
}
system. out. Print ln ("too low");
}
else if (r<a)
}
system. out . Print ln ("too high");
system.out.Print ln (" you last in);
system. guessed " +r+ " better lusk Next time");
}
}
}
```

Sample out :-

try high
try again;5

3) Aim :- To write Java program for generating displaying the multiplicate table.

Pseudo code :-

Step1 :- Initialize the variable

Step2 :- get the input Number from the user

Step3 :- using for loop generate the multiplicate table by multiplying

Step4 :- display the Multiplicate table.

Program :-

```
import. Java.util.scanner

Public class multiplication.table {
Public static void main (String[] args){
Scanner input = New scanner (system.in);
system. out. println ("Enter the Number:");
for (int i=1; i<10; i++)
{
system. out. Print In (a+"*"+i+"="+axi);
}
}
```

Output :-

7x1=7

7x2=14

⋮

7x10=70

4) Aim :- To write Java program for even and odd counter.

Pseudocode :-

Step1 :- initialize the variable.

Step2 :- declare same Number in array

Step3 :- check each Number is divisible by 2

Step4 :- if divisible then it is even else it is odd Number.

Program :-

```
import. Java. util. scanner;
public .class even-odd- count {
public . static void main (string() args) {
scanner. input = New scanner (system. in);
int [] a = {2, 3, 4, 5, 6};
int ec = 0; oc = 0;
}
if (a[i] % 2 == 0)
{
ec ++;
}
system. out. println ("Number of even);
```

```
system.out.println("Number of odd Numbers
                    " +oc);

}
}
```

Output :-

Number of even Number = 3

Number of odd Number = 2

5) Aim :- To write Java program for simulations a basic ATM system

Program :-

```
import Java.util.scanner;
public class atm {
public static void main (string [] args){
  int i = 1000;
  while (cn)) {

  int a = input.nextInt();
   if (a == 1)
   {
  int d = input.nextInt();
   int = d;
```

```
int w= input.Next Int();
 if (in >w)
 in == w;
 else
system. out.print(" Insufficient bialance\n");

    else if (a==3)
{
system. out. Println ("\n Your Balance : "+int
                "\n");
}
else
{
system. out. Println ("closing ...");
 system. exit (0);
}
}
}
}
```

Output :-

Chose the operation 1. Deposite 2. without
3. check Blance 4. exit

1) enter the amount to deposite : 200

Choose the operation : 2

choose the operation : 3

Available Balance : 1050

Choose the operation : 4

closing.