

-Assignment - I

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CSA0914- Programming in Java

1. **Aim :-** To write a java program for calculating students grade based on marks.

Pseudocode :-

step 1 :- Initialize the variables.

step 2 :- get the input marks from user

step 3 :- assign the grade for eg: 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) {
```

```
Scanner input = new Scanner(System.in);
```

```
System.out.print("enter your mark:");
```

```
int m = input.nextInt();
```

```
char grade;
```

```
if (m >= 90)
```

```
    grade = 'A';
```

```
else if (m < 90 && m >= 80)
```

```
    grade = 'B';
```

```
else if (m < 80 && m >= 70)
```

```
    grade = 'C';
```

```
else if (m < 70 && m >= 60)
```

```

    grade = 'D';
else
    grade = 'F';
    system.out.print("Grade = " + grade);
}
}

```

Sample output :- enter your mark: 74
Grade = C

Aim :- To write a java program for guessing a simple number bet 1 & 10

Pseudocode :-

step 1 :- assign the variable

step 2 :- using random function assign any number bet 1 to 10

step 3 :- ask the user to guess that number give 3 chances to for loop.

step 4 :- If user lost then print the system guessed number.

Program :-

```

import java.util.Scanner;
Public class number guess {
    Public static void main (String[] args) {
        Scanner input = new Scanner(System
                                in);
    }
}

```

```

Random random = new Random();
System.out.print("guess 1 to 10");
int r = random.nextInt(10)+1;
int i;
for(i=0; i<3; i++){
    int a = input.nextInt();
    if (r>a)
    {
        System.out.print("too low");
    }
    else if (r<a)
    {
        System.out.print("too high");
    }
    else
    {
        System.out.print("you win");
        System.exit(0);
    }
    if (i<2)
        System.out.print("In try again:");
    }
}
}
}

```


Sample input :-

guess any number between 1 to 10 : 7

too high

try again : 5

too low

you lost

better Luck next time

3. **Aim :-** To write java program for generating and displaying mul table

Pseudocode :-

step 1 : Initializing the variables.

step 2 : Get the input number from the user

step 3 : using for loop generating the multiplication table

step 4 :- Display the output

Program :-

```
import java.util.Scanner;
```

```
public class multiplication-table {
```

```
public static void main (String[] args) {
```

```
System.out.print ("enter number : ");
```

```
int a = input.nextInt();
```

```
for (int i = 1; i <= 10; i++)
```

```
{  
    System.out.println (a + " * " + i + " = " + a * i);  
}
```

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.

Pseudocode :-

step 1 :- initialize the variables

step 2 :- declare some number in array

step 3:- check each number is divisible
by 2

step 4:- 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;  
        for (int i = 0; i < a.length; i++)  
        {  
            if (a[i] % 2 == 0)  
            {  
                ec++;  
            }  
            else  
            {  
                oc++;  
            }  
        }  
        System.out.print (ec, oc);  
    }  
}
```

output :- 3,2

Aim :- To write java program for simulation a basic ATM system.

Program :-

```
import java.util.Scanner;
Public class atm {
Public static void main (String[]
args) {
Scanner input = new Scanner (System
.in);
int i = 1000;
boolean ch = true;
While (ch) {
system.out.println (" choose operator");
int a = input.nextInt();
if (a == 1)
{
system.out.print (" enter the
amount to deposite : ");
int d = input.nextInt();
int i = d;
```



```

system.out.print("In amount to
    deposited");
3
else if(a==2)
{
system.out.print("enter the amount
    to withdraw:");
int w = input.nextInt();
if(in > n)
    in == w;
else
system.out.print("Insufficient
    balance");
else if(a==3)
{
system.out.print("In balance");
3
else
{
system.out.print("closing---");
}
}

```

Sample output:-

1. Deposit
2. Withdraw
3. Check Balance
4. Exit.