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CSA0914

Assignment - 1

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

Pseudo code:
-> Initialize the variables.
-> Get the input marks from user.
-> Based on the marks category assign the grade for. eg if marks >90 grade = A
-> 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 marks:");
int m = input.next Int();
   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);
}}
```

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 i=1; i<10; i++)
{
system.out.println (a+"*"+i"="+a*i);
}
}
```

Sample Output:

```
Enter the number : 1
1X1 = 1      1X6 = 6
1X2 = 2      1X7 = 7
1X3 = 3      1X8 = 8
1X4 = 4      1X9 = 9
1X5 = 5      1X10 = 10
```

4. Aim:
To write java program for even and odd counter.

Pseudo Code:

-> Initialize the variables.
-> Declare some number in array
-> Check it 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);
```

O/P:
Enter your marks : 74
Grade = C

2. Aim:
To write java program for guessing a simple number b/w 1 & 10.

Pseudo Code:
-> Assign the variables.
-> Using random functions assign any number b/w 1 & 10.
-> 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 any number
    b/w 1 to 10:");
  int r = random.next Int(10)+1;
    int i;
  for (i=0; i<3; i++){
  int a = input.next Int ();
   if (r>a)
{
system.out.print ("too oh");
 }
 else {
 {
```

```
system.out.print ("you win");
system.exit (0);
}
if (i==2)
System.out.print ("int again:");
}
if(i>=3)
{
system.out.print ("In game you lost\n
system.guessed "+r...+" better luck
        next time");
}}}
```

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O/p:

Guess any number b/w 1 to 10 : 7
too high
try again : 5
too low
try again : 8
too high
you lost
system guessed 6 better luck next time.

3. Aim:

To write java program for generating and displaying the table

Pseudo code:

-> Initialize the variables.
-> Get the input number from user.
-> Display the multiplication table.

```
system.out.print("enter the amount
    to deposit :");
int d = input.nextInt();
  int =d;
System.out print ("In Amount deposited
    successfully");
}
else if (a==2)
{
system.out.print("enter the amount
  to withdraw :");
  int w = input.nextInt();
    if (in>w)
    in == w;
     else
system.out.print("Insufficient balance")
else if (a == 3)
{
system.out.print("closing ---");
system.exit(0);
}}}}
```

Sample Output:

Choose the operation 1. Deposit 2. Withdraw
3. Check Balance 4. Exit
1) 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
closing....

```
ec=0, oc=0;
for (int i=0; i<a; length; i++)
{
if (a[i]%2==0)
  {
  ec++;
}
else
{
oc++;
}}
System.out.print("number of even
      numbers = "+ec);
System.out.print("number of add
    numbers = "+oc);
}}
```

Output:

No.of even numbers : 3
No.of odd numbers : 2

5. Aim:

To write java program for simulting 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 (n = true;
while (ch){
```