CSA0985 – PROGRAMMING IN JAVA FOR MOBILE APPLICATIONS.

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1. Write a java program for Armstrong number ?

Ans :

```java
import java.util.Scanner;
public class Armstrong
{
  public static void main(String[] args)
  {
    int number, originalNumber, remainder, result = 0;
    Scanner scanner = new Scanner(System.in);
    System.out.println("Enter a number:");
    number = scanner.nextInt();
    originalNumber = number;
    while (originalNumber != 0) {
      remainder = originalNumber % 10;
      result += Math.pow(remainder, 3);
      originalNumber /= 10;
    }

    if (result == number) {
      System.out.println(number + " is an Armstrong number.");
```

```
        } else {

            System.out.println(number + " is not an Armstrong number.");

        }

    }

}
```

2. **Write a java program for factorial numbers ?**

Ans :   *import java.util.Scanner;*

```
class factorial

{

  public static void main(String[] args)

  {

    int i,num,fact=1;

    Scanner input=new Scanner(System.in);

    System.out.println("Enter the num:");

    num=input.nextInt();

    for(i=1;i<=num;i++)

    {

      fact=fact*i;

    }

    System.out.println("Factorial of" + num + "is:" + fact);

  }

}
```

3. Write a java program to represent atm transactions, where a user has to choose input from the options displayed on screen. The available options on the screen includes operations such as withdraw, deposit, balance.

Ans :

```java
import java.io.*;
public class GFG {
    public static void displayBalance(int balance)
    {
        System.out.println("Current Balance : " + balance);
        System.out.println();
    }
    public static int amountWithdrawing(int balance, int withdrawAmount)
    {
        System.out.println("Withdrawn Operation:");
        System.out.println("Withdrawing Amount : "+ withdrawAmount);
        if (balance >= withdrawAmount) {
            balance = balance - withdrawAmount;
            System.out.println("Please collect your money and collect the card");
            displayBalance(balance);
        }
        else {
            System.out.println("Sorry! Insufficient Funds");
            System.out.println();
        }
        return balance;
    }
```

```java
public static int amountDepositing(int balance, int depositAmount)

{

        System.out.println("Deposit Operation:");

        System.out.println("Depositing Amount : "+ depositAmount);

        balance = balance + depositAmount;

        System.out.println("Your Money has been successfully deposited");

        displayBalance(balance);

        return balance;

}
 public static void main(String args[])

{

        int balance = 10000;

        int withdrawAmount = 5000;

        int depositAmount = 2000;


        displayBalance(balance);

        balance

                = amountWithdrawing(balance, withdrawAmount);

        balance = amountDepositing(balance, depositAmount);

}
}
```

4 . Write a java program for sum of digits ?

Ans :

```java
import java.util.Scanner;

class digits
{
 public static void main(String args[])
 {
  int number, digit, sum = 0;
  Scanner input= new Scanner(System.in);
  System.out.print("Enter the number: ");
  number = input.nextInt();
  while(number > 0)
  {
   digit = number % 10;
   sum = sum + digit;
   number = number / 10;
  }
  System.out.println("Sum of Digits: "+sum);
 }
}
```