CSA0985 – PROGRAMMING IN JAVA FOR MOBILE APPLICATIONS.

ASSIGNMENT – 2

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1.Write a java program for Armstrong number ?

ANS:

```
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:

```
import java.util.Scanner;
class banking
{
  public static void main(String args[] )
  {
    int balance = 5000, withdraw, deposit;
    Scanner s = new Scanner(System.in);
    while(true)
    {
      System.out.println("Automated Teller Machine");
      System.out.println("Choose 1 for Withdraw");
      System.out.println("Choose 2 for Deposit");
      System.out.println("Choose 3 for Check Balance");
      System.out.println("Choose 4 for EXIT");
      System.out.print("Choose the operation you want to perform:");
      int n = s.nextInt();
      switch(n)
      {
        case 1:
        System.out.print("Enter money to be withdrawn:");
        withdraw = s.nextInt();
        if(balance >= withdraw)
        {
          balance = 5000 - withdraw;
          System.out.println("Please collect your money"+withdraw);
          System.out.println("balance"+balance);
        }
        else
        {
          System.out.println("Insufficient Balance");
```

```
            }
            System.out.println("");
            break;
            case 2:
            System.out.print("Enter money to be deposited:");
            deposit = s.nextInt();
            balance = 5000 + deposit;
            System.out.println("Your Money has been successfully
depsited"+deposit);
            System.out.println("balance"+balance);
            System.out.println("");
            break;

            case 3:
            System.out.println("Balance : "+balance);
            System.out.println("");
            break;

            case 4:
            System.out.exit(0);
        }
      }
   }
}
```

4 . Write a java program for sum of digits ?

ANS:

```
    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);
 }
}
```