CSA0985 -- PROGRAMMING IN JAVA

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1)Write a program for Armstrong number in java?

import java.util.Scanner;

class armstrong

{

public static void main(String[] args)

{

int number, originalNumber, remainder, result = 0;

Scanner input=new Scanner(System.in);

System.out.println("Enter a number:");

number=input.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 factorial for a number in java?

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 program for banking in java?

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System.out.print("Enter money to be withdrawn:");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.exit(0);

}

}

}

}

4)Sum of digits in 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);

}

}