**Question1:**

**import** java.util.\*;

**import** java.lang.Math;

**public** **class** git

{

**private** **static** Object *j*;

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

**int** n;

**double** sum = 0;

Scanner sc=**new** Scanner(System.***in***);

System.***out***.print("Enter the number of elements you want to store: ");

n=sc.nextInt();

**int**[] array = **new** **int**[n];

System.***out***.println("Enter the elements of the array: ");

**for**(**int** i=0; i<n; i++)

{

array[i]=sc.nextInt();

}

**for**(**int** k = 0; k < array.length; k++)

{

**int** temp;

temp = array[k] ;

String a = String.*valueOf*(temp);

**int** m= a.length();

**for**(**int** j = 0; j < m; j++)

{

**char** b;

b =a.charAt(j);

**int** c = Character.*getNumericValue*(b);

**double** mult = Math.*pow*(c, m);

sum = sum + mult;

}

**if**(array[k] == sum)

{ sum=0;

System.***out***.println(array[k] + " is an Armstrongs number ");

}

**else**

{ sum=0;

System.***out***.println(array[k] + " is not an Armstrongs number ");

}

}

}

**private** **static** **int** charAt(**int** j2) {

// **TODO** Auto-generated method stub

**return** 0;

}

**private** **char** charAt(Object j2) {

// **TODO** Auto-generated method stub

**return** 0;

}

}

**Question2:**

**import** java.util.\*;

**public** **class** q2 {

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

String Str="Hi@we#are\*,ABC XYZ";

StringTokenizer str\_array = **new** StringTokenizer(Str,"@#\*, -\_+");

**int** tokencount = str\_array.countTokens();

System.***out***.println("Total number of Tokens: "

+ tokencount);

**for** (**int** J = 0; J < tokencount; J++)

System.***out***.println("token placed at [" + J + "] : "

+ str\_array.nextToken());

}

}

**Question3:**

**import** java.util.\*;

**public** **class** git

{

**private** String name;

**private** **int** id;

**private** **int** age;

**public** String getname(){

**return** name;

}

**public** **int** getid(){

**return** id;

}

**public** **int** getage(){

**return** age;

}

**public** **void** setname(String Name){

name = Name;

}

**public** **void** setid(**int** Id){

id = Id;

}

**public** **void** setage(**int** Age){

age = Age;

}

}

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

Student s = **new** Student();

s.setid(4071);

s.setage(23);

s.setname("Mubashir");

System.***out***.println("Student Id : "+s.getid());

System.***out***.println("Student Age : "+s.getage());

System.***out***.println("Student Name : "+s.getname());

}

}

**Question4:**

**package** project1;

**class** Operation1

{

**public** **int** reverse(**int** a, **int** b)

{

**return** a+b;

}

}

**class** Operator **extends** Operation1

{

Operator()

{

}

**public** **void** reverse(String str)

{

**char** []arr =str.toCharArray();

**int** s=arr.length;

**for**(**int** i=0;i<s;i++)

{

**if**(arr[s-1]=='\*')

{

s--;

}

**if**(arr[i]!='\*'&&arr[s-1]!='\*')

{

**char** temp=arr[i];

arr[i]=arr[s-1];

arr[s-1]=temp;

s--;

}

}

System.***out***.println("After reversing :");

**for**(**int** i=0;i<arr.length;i++)

{

System.***out***.print(arr[i]);

}

System.***out***.println("\n");

}

}

**class** Operation

{

**public** **static** **void** main(String[] args)

{

Operator Myobj= **new** Operator();

Myobj.reverse("ABC\*\*bca\*");

Myobj.reverse("\*hel\*\*l\*o");

}}

**Question5:**

import java.util.\*;

import java.util.Scanner;

public class Animal {

    public String name;

    public int age;

    public void set\_Value(String name, int age) {

        this.name = name;

        this.age = age;

    }

}

class Zebra extends Animal{

    public void zinfo() {

        System.out.println("Animal is Zebra");

    }

    public String get\_Name() {

        return this.name;

    }

    public int get\_Age() {

        return this.age;

    }

}

class Dolphin extends Animal {

    public void dinfo() {

        System.out.println("Animal is Dolphin");

    }

    public String get\_Name() {

        return this.name;

    }

    public int get\_Age() {

        return this.age;

    }

}

**Question6:**

**package** project1;

**class** BiCycle{

String define\_me(){

**return** "a vehicle with pedals.";

}

}

**class** MotorCycle **extends** BiCycle{

String define\_me(){

**return** "a cycle with an engine.";

}

MotorCycle(){

System.***out***.println("Hello I am a motorcycle, I am "+ define\_me());

String temp=**super**.define\_me();

System.***out***.println("My ancestor is a cycle who is "+ temp );

}

}

**public** **class** q5 {

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

MotorCycle M=**new** MotorCycle();

}

}