JAVA PROGRAMMING

LAB-FILE

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Submitted to

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PROGRAM :-1

```
package mcajamia;

public class Student
{
	private String name;
	private String age;
	private String gender;
	private String course;
	private String comm_add;
	private String per_add;
	private String Enroll_no;


	public Student(String name, String age, String gender, String course, String
comm_add, String per_add,
			String enroll_no) {

		this.name = name;
		this.age = age;
		this.gender = gender;
		this.course = course;
		this.comm_add = comm_add;
		this.per_add = per_add;
		Enroll_no = enroll_no;
	}
	public String getName() {
		return name;
	}
	public void setName(String name) {
		this.name = name;
	}
	public String getAge() {
		return age;
	}
	public void setAge(String age) {
		this.age = age;
	}
	public String getGender() {
		return gender;
	}
	public void setGender(String gender) {
		this.gender = gender;
	}
	public String getCourse() {
		return course;
	}
	public void setCourse(String course) {
		this.course = course;
	}
	public String getComm_add() {
```

```
		return comm_add;
	}
	public void setComm_add(String comm_add) {
		this.comm_add = comm_add;
	}
	public String getPer_add() {
		return per_add;
	}
	public void setPer_add(String per_add) {
		this.per_add = per_add;
	}
	public String getEnroll_no() {
		return Enroll_no;
	}
	public void setEnroll_no(String enroll_no) {
		Enroll_no = enroll_no;
	}



		public static void main(String [] args)
{
	Student arslan = new Student("mohd
arslan","21","male","mca","822delhi","jamamasjid","2020_501-033");
	Address coper = new Address ("822","chitla gate","central-
delhi","delhi","Delhi",06);

	System.out.println( "NAME:-" +arslan.getName());
	System.out.println("AGE:-" +arslan.getAge());
	System.out.println("GENDER:-"+arslan.getGender());
	System.out.println("COURSE:-"+arslan.getCourse());
	System.out.println("COOMUNICATION_ADDRESS"+arslan.getComm_add());
	System.out.println("PERMANENT_ADDRESS:-"+arslan.getPer_add());
	System.out.println("ENROLLMENT_NUMBER:-"+arslan.getEnroll_no());

	System.out.println("FLAT_NUMBER:-"+coper.getFlat_no());
	System.out.println("STREET_NUMBER:-"+coper.getStreet_name());
	System.out.println("LOCALITY:-"+coper.getLocality());
	System.out.println("DISTRICT:-"+coper.getDistrict());
	System.out.println("STATE:-"+coper.getState());
	System.out.println("PINCODE:-"+coper.getPincode());


}
}
```

PROGRAM:2

```
package mcajamia;

public class Address

	{
		private String flat_no;
		private String street_name;
```

```
	private String locality;
	private String district;
	private String state;
	private long pincode;

	public Address(String flat_no, String street_name, String locality,
String district, String state, long pincode)
	{

		this.flat_no = flat_no;
		this.street_name = street_name;
		this.locality = locality;
		this.district = district;
		this.state = state;
		this.pincode = pincode;
	}
		public String getFlat_no() {
		return flat_no;
	}
		public void setFlat_no(String flat_no) {
		this.flat_no = flat_no;
	}
		public String getStreet_name() {
		return street_name;
	}
		public void setStreet_name(String street_name) {
		this.street_name = street_name;
	}
		public String getLocality() {
		return locality;
	}
		public void setLocality(String locality) {
		this.locality = locality;
	}
		public String getDistrict() {
		return district;
	}
		public void setDistrict(String district) {
		this.district = district;
	}
		public String getState() {
		return state;
	}
		public void setState(String state) {
		this.state = state;
	}
		public long getPincode() {
		return pincode;
	}
		public void setPincode(long pincode) {
		this.pincode = pincode;
	}
```

```
}
```

PROGRAM 3

```
package mcajamia;
//import java.util.Scanner;
class Box
{
    double length;
    double height;
    double breath;


    Box()
    {
        System.out.println("Constructing Box");
        length = 10;
        height = 13;
        breath = 12;
    }


    double volume()
    {

        return length * height * breath;
    }
}

class TestBox
{
    public static void main(String args[])
    {


        Box first = new Box();
        Box second= new Box();

        double vol;


        vol = first.volume();


        System.out.println("Volume of the first box is " + vol);


        vol = second.volume();


        System.out.println("Volume of the second box is " + vol);

    }
```

```
}
```

PROGRAM :-4

```
package mcajamia;

import java.util.Scanner;

public class ExeptionExample2 {
	static int  operand1;
	static int operand2;
	public static void main(String[] args) {
		// TODO Auto-generated method stub
		Scanner scan=new Scanner(System.in);
		float result=0f;

		System.out.println("Enter first operand");
		operand1=Integer.parseInt(scan.next());
		System.out.println("Enter second operand");
		operand2=Integer.parseInt(scan.next());
		// Un-Checked Exception or runtime exception
		result=operand1/operand2;

		operand1=operand1+5;
		result=result*2;
		System.out.println("Result of the expresion : (operand1/operand2)X2
="+result);
			scan.close();


	}

}
```

PROGRAM :-5

```
package mcajamia;

import java.util.Scanner;

package in.ac.jh;

public class Calculator {



	public static int add(int ... x) { // vararg syntax
		int sum=0;
		for(int i=0;i<x.length;i++) {
			sum=sum+x[i];
		}
		return sum;

	}


public static float add(float x, float y) {
	return x+y;
}



public static float add(float x, int y) {

	return x+y;
}
public static float add(int x, float y) {
	return x+y;
}

public float multiply(float x,float y) {
	return x*y;
}
}
```

PROGRAM :-5

```
package mcajamia;

import java.util.ArrayList;
import java.util.List;


public class EceptionExample5 {

	public static void main(String[] args) {
		// TODO Auto-generated method stub



List<String> objectsList=new ArrayList<String>();
try{
for(long i=0;i<500000000000L;i++){
	String str=new String("object"+i);
	objectsList.add(str);
	System.out.println(str +" craeted and added to the list");
}
}catch(OutOfMemoryError err){

}
	}

}
```

PROGRAM:-6

```
package mcajamia;

import java.io.File;
import java.io.FileNotFoundException;
import java.io.FileReader;
import java.util.Scanner;

public class ExceptionDemoIndexOutOfBoundExcep {
	 static char c;
	public static void main(String[] args) throws FileNotFoundException {
	String name="Shah Imran Alam";
	int [] intArray={1,2,3,4,5,6,7,8,9,0};
	Scanner scan=new Scanner(System.in);
	System.out.println("Enter index value for charector in String");
	int index=scan.nextInt();

	knowCharAtGivenIndex(name,index);
		System.out.println("Enter index value for array of integers");
		int intIndex=scan.nextInt();

		knowIntAtGivenIndex(intArray,intIndex);

		// TODO Auto-generated method stub

	}

 static  void knowCharAtGivenIndex(String s,int index) throws FileNotFoundException{

	 String fileName = "c:\\temp.txt";
	 FileReader fileReader=null;

		fileReader = new FileReader(fileName);
	  c=s.charAt(index);
		System.out.println("Charector at index "+index+" is "+c);


	}
 static void knowIntAtGivenIndex(int [] intArray,int index){

		 System.out.println("Integer value at index "+index+" is
"+intArray[index]);

 }

}
```

Thank’s

From mohd arslan(2020-501-033)