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- Q1.1. (D) 246135
Q1.2. (E) I, II, and III
Q1.3. (E) I, II, and III
Q1.4. (B) [0+1, 2+3, 4+5, 6+7, 8+9]
Q1.5. (B) MyTV should be declared abstract; it does not define tune To (String)
Q1.6. (B) game.getPlayer(1)
Q1.7. (B) II only

Q2.

1.

```
<terminated> StudentService (2) [Java Application] C:\Users\HP\p2\pool\plug
1.INSERT
2.DISPLAY
3.SEARCH
4.DELETE
5.UPDATE
0.EXIT
Enter Your Choice : 1
Enter Student RollNo : 1
Enter Student Name : Rukmini
Enter Student Age : 23
1.INSERT
2.DISPLAY
3.SEARCH
4.DELETE
5.UPDATE
0.EXIT
Enter Your Choice : 2
*****
roll_no=1, name=Rukmini, age=23
*****
1.INSERT
2.DISPLAY
3.SEARCH
4.DELETE
5.UPDATE
0.EXIT
Enter Your Choice : 3
Enter Student RollNo to Search :1
*****
roll_no=1, name=Rukmini, age=23
*****
1.INSERT
2.DISPLAY
3.SEARCH
4.DELETE
5.UPDATE
0.EXIT
Enter Your Choice : 5
Enter RollNo to Update :1
Enter new Name : Chebrolu
Enter new Age: 22
Record is Updated Successfully...!
```

```
2.DISPLAY
3.SEARCH
4.DELETE
5.UPDATE
0.EXIT
Enter Your Choice : 0
Thank you Exited successfully
|
```

2.

```
<terminated> Product [Java Application] C:\Users\HP\p2\pool\plugins\org.eclipse.justi.openjdk.hotspot.jre.full.win32.x86_64_16.0.2.v20210721-1149\jre\
Enter Product Id and Product Name:
P001 Maruti
P002 Suzuki
P003 Honda
P003
Jupiter
P004
car
P005 bike
P006 beleno
P007 audi
P008 ola
P009 swix
Product List is :
{P009=swix, P008=ola, P007=audi, P006=beleno, P005=bike, P004=car, P003=Jupiter, P002=Suzuki, P001=Maruti}
Enter Product Id you want to remove
9
Item removed successfully...
Product List is....
{P009=swix, P008=ola, P007=audi, P006=beleno, P005=bike, P004=car, P003=Jupiter, P002=Suzuki, P001=Maruti}
Enter Product ID you want to search :
P008
pla
```

3.

```
<terminated> EmployeeService (6) [Java Application] C:\Users\HP\p2\pool\plugins\org.eclipse.justi.openjdk.hotspot.jre.full.win32.x86_64_16.0.2.v20210721-1149\jre\
1      Chebrolu      Rukmini
2      Lakshmi Pranav
3      Saikumar      Nuthalapati
4      Spandama      boyapati
```

4.

<terminated> NameService [Java Application] C:\Users\HP\p2\p

Select your Choice:

- 1.Accepting the first name and surname
- 2.display total name
- 3.Exit.

1

enter number of persons :

3

Enter your first name :1

Rukmini

Enter your sur name :1

Chebrolu

Enter your first name :2

Harish

Enter your sur name :2

M

Enter your first name :3

Pranav

Enter your sur name :3

Kakumanu

Enter the choice:

- 1.Accept first name and surname
- 2.display total names
- 3.Exit.

2

Total Names present in vector is :3

Enter the choice:

- 1.Accept first name and surname
- 2.display total names
- 3.Exit.

3

..

<

Codes

1.

Student.java

```
public class Student {
    private int roll_no;
    private String name;
    private int age;
    private String course;
    private String contact;

    Student(int roll_no, String name, int age){
        this.roll_no = roll_no;
        this.name = name;
        this.age = age;

    }

    public int getRoll_no() {
        return roll_no;
    }

    public void setRoll_no(int roll_no) {
        this.roll_no = roll_no;
    }

    public String getName() {
        return name;
    }

    public void setName(String name) {
        this.name = name;
    }

    public int getAge() {
        return age;
    }

    public void setAge(int age) {
        this.age = age;
    }
    @Override
```

```
    public String toString() {  
        return "roll_no=" + roll_no + ", name=" + name + ", age=" + age ;  
    }  
}
```

StudentService.java

```
import java.util.List;  
import java.util.Scanner;  
import java.util.ArrayList;  
import java.util.ListIterator;  
import java.util.Iterator;  
  
public class StudentService {  
    public static void main(String[] args) {  
  
        List<Student> student = new ArrayList<Student>();  
        Scanner input1 = new Scanner(System.in);  
        Scanner input2 = new Scanner(System.in);  
        int choice;  
        do{  
            System.out.println("1.INSERT");  
            System.out.println("2.DISPLAY");  
            System.out.println("3.SEARCH");  
            System.out.println("4.DELETE");  
            System.out.println("5.UPDATE");  
            System.out.println("0.EXIT");  
            System.out.print("Enter Your Choice : ");  
            choice = input1.nextInt();  
  
            switch(choice){  
                case 1:  
                    System.out.print("Enter Student RollNo : ");  
                    int roll = input1.nextInt();  
                    System.out.print("Enter Student Name : ");  
                    String name = input2.nextLine();  
                    System.out.print("Enter Student Age : ");  
                    int age = input1.nextInt();
```

```

student.add(new Student(roll,name,age));
break;
case 2:
System.out.println("*****");
Iterator<Student> i = student.iterator();
while(i.hasNext()){
Student s = i.next();
System.out.println(s);
}
System.out.println("*****");
break;
case 3:
boolean found = false;
System.out.print("Enter Student RollNo to Search :");
int roll_no = input1.nextInt();
System.out.println("*****");
i = student.iterator();
while(i.hasNext()){
Student s = i.next();
if(s.getRoll_no() == roll_no) {
System.out.println(s);
found = true;
}
}

if(!found){
System.out.println("Record Not Found");
}
System.out.println("*****");
break;

case 4:
found = false;
System.out.print("Enter Student RollNo you want to Delete :");
roll_no = input1.nextInt();
System.out.println("*****");
i = student.iterator();
while(i.hasNext()){
Student s = i.next();
if(s.getRoll_no() == roll_no) {
i.remove();
found = true;
}
}

```

```

    }
    }

    if(!found){
        System.out.println("Record Not Found");
    }else{
        System.out.println("Record is Deleted Successfully...!");
    }

    System.out.println("-----");
    break;
    case 5:
        found = false;
        System.out.print("Enter RollNo to Update :");
        roll_no = input1.nextInt();

        ListIterator<Student>li = student.listIterator();
        while(li.hasNext()){
            Student s = li.next();
            if(s.getRoll_no() == roll_no) {
                System.out.print("Enter new Name : ");
                name = input2.nextLine();

                System.out.print("Enter new Age: ");
                age = input1.nextInt();

                li.set(new Student(roll_no,name,age));
                found = true;
            }
        }

        if(!found){
            System.out.println("Record Not Found");
        }else{
            System.out.println("Record is Updated Successfully...!");
        }

        break;
        case 0:
            System.out.println("Thank you Exited successfully");

```

```

    }
    }while(choice!=0);
    }
}
-----

```

2. Product.java

```

import java.util.Hashtable;
import java.util.Scanner;

public class Product {

    public static void main(String[] args) {
        // TODO Auto-generated method stub
        Scanner sc=new Scanner(System.in);
        Hashtable<String,String> hash=new Hashtable<String,String>();
        System.out.println("Enter Product Id and Product Name: ");

        for(int i=0;i<10;i++) {
            hash.put(sc.next(), sc.next());
        }
        System.out.println("Product List is : ");
        System.out.println(hash);

        System.out.println("\nEnter Product Id you want to remove");
        String id=sc.next();
        hash.remove(id);
        System.out.println("Item removed successfully...");

        System.out.println("Product List is....");
        System.out.println(hash.toString());
        System.out.println("Enter Product ID you want to search :");
        String searchId=sc.next();
        if(hash.containsKey(searchId))
            System.out.println(hash.get(searchId));
        else
            System.out.println("Not found");

    }
}

```


3. Employee.java

```
import java.util.Vector;

public class Employee {
    private int empid;
    private String empname,address;
    public Employee(int empid, String empname, String empaddress) {
        super();
        this.empid = empid;
        this.empname = empname;
        this.address = empaddress;
    }
    public int getEmpid() {
        return empid;
    }
    public void setEmpid(int empid) {
        this.empid = empid;
    }
    public String getEmpname() {
        return empname;
    }
    public void setName(String empname) {
        this.empname = empname;
    }
    public String getAddress() {
        return address;
    }
    public void setAddress(String empaddress) {
        this.address = empaddress;
    }
}
```

EmployeeService.java

```
import java.util.Vector;

public class EmployeeService {
    public static void main(String[] args) {
        Vector<Employee> v =addInput();
        display(v);
    }
    public static Vector<Employee> addInput()
```

```

{
Employee e1=new Employee(1,"Chebrolu","Rukmini");
Employee e2=new Employee(2,"Lakshmi","Pranav");
Employee e3=new Employee(3,"Saikumar","Nuthalapati");
Employee e4=new Employee(4,"Spandama","boyapati");
Vector<Employee> v = new Vector<Employee>();
v.add(e1);
v.add(e2);
v.add(e3);
v.add(e4);
return v;
}
public static void display(Vector<Employee>v)
{
for(Employee e:v)
{
System.out.println(e.getEmpid()+"\t"+e.getEmpname()+"\t"+e.getAddress());
}
}
}

```

4. Name.java

```

public class Name {
String firstName,surName;

public Name() {

    // TODO Auto-generated constructor stub
}

public Name(String firstName, String surName) {
    super();
    this.firstName = firstName;
    this.surName = surName;
}

public String getFirstName() {
    return firstName;
}

public void setFirstName(String firstName) {

```

```

        this.firstName = firstName;
    }

    public String getSurName() {
        return surName;
    }

    public void setSurName(String surName) {
        this.surName = surName;
    }

}

```

NameService.java

```

import java.util.Scanner;
import java.util.Vector;

public class NameService {
    public static void main(String[] args) {
        Scanner sc=new Scanner(System.in);
        System.out.println("Select your Choice:");
        System.out.println("\n1.Accepting the first name and surname\n2.display total
name\n3.Exit.");
        int choice=Integer.parseInt(sc.nextLine());
        Vector v1=new Vector ();
        Vector<Name> v2=new Vector<Name>();

        while(choice !=3)
        {
            if(choice==1)
            {
                System.out.println("enter number of persons :");
                int n=Integer.parseInt(sc.nextLine());
                for(int i=1;i<=n;i++)
                {
                    System.out.println("Enter your first name :"+(i));
                    String fn =sc.nextLine();
                    System.out.println("Enter your sur name :"+(i));
                    String ln =sc.nextLine();
                    v1.add( new Name( fn, ln));
                }
            }
        }
    }
}

```

```
    }  
    System.out.println("\n\n Enter the choice:");  
  
    System.out.println("\n1.Accept first name and surname\n \n2.display total names\n3.Exit.");  
        choice=Integer.parseInt(sc.nextLine());  
        if(choice==2)  
        {  
            System.out.println("\nTotal Names present in vector is :"+v1.size()+"\n\n");  
        }  
        }  
        System.out.println("thank you");  
    }  
}
```