Collections Level 2

Develop a class with generatePrimes(int N) showPrimes(Vector vector). generatePrimes() to generate first N prime numbers and store these prime numbers in Vector Object. Display the Vector object elements by using showPrimes() method.

```
public void generatePrimes(int no){
                  //Write your logic
               showPrimes( object );
   public void showPrimes(Vector<Integer> vector){
                //Write your logic
   }
2. Develop a class with Instance variable states (of type Set), addSate(String
   viewStates().
   addState(String name) stores the state name into the states Object.
   viewStates() should display the elements from the states object in the descending order.
   public class StatesInfo{
           private Set<String> states=// Create Object, which is required for you
           public void addState(String name){
                  // Write your Logic
           }
           public void viewStates(){
                  // Write your Logic
```

- 1. To sort the elements in Set, use java.util API interface
- 3. Develop a class with Instance variable state_capital (of type Map), add_sate_capital (String state,String capital), viewCapital(String state).

}

}

Hint:

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add_state_capital(String state, String capital) stores the state, capital values into the state_capital Object.

viewCapital (String state) should display the capital of the given state. If no state is found it should display message "The State name is not existing"

```
public class State_Capital_Info{

private Map<String,String> state_capital=// Create Object, which is required for you

public void add_state_capital(String state,String capital){

    // Write your Logic

}

public void viewCapital(String name){

    // Write your Logic
}
```

4. Develop a class with instance variable map(of type Map<Integer,Student>), addStudent(Student s), viewStudents(), viewStudent(Integer id).

addStudent(Student s): get key value from Student class by invoking getId(),should add student object and id to the Map.

viewStudents(): It should display all the student's detail from the map object.

viewStudent(Integer id): It should display the particular student's detail.

The Student class:

}

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// Do display student details override toString() method of the Object class.

5. Write a program to display the

Java Virtual Machine name

Java Library Path

Operating System Name

Hint: Use Java API classes (System, Properties)