```
1 Number Reverse program
package test1;
import java.util.Scanner;
class Revert1{
    Scanner s = new Scanner(System.in);
    int remainder,result=0;
    public void m1() {
         System.out.println("Enter the number:");
         int n=s.nextInt();
         while(n !=0) {
              remainder=n%10;
              result=result*10+remainder;
              n=n/10;
         System.out.print("Reverse Number:"+result);
public class Revert {
    public static void main(String[] args) {
         Revert1 r = new Revert1();
         r.m1();
Output:
Enter the number:
2343
Reverse Number: 3432
```

2. Pattern program:

Output:

3 using try catch block If person is above 18 are eligible to vaccine else not eligible to vaccine using exception throws

```
package test1;
```

```
import java.util.Scanner;
import java.util.*;
public class Try {
  static int n=0;
     public static void main(String[] args) {
          try(Scanner s = new Scanner(System.in);){//try
with resource
               System.out.print("Enter age:");
               n=s.nextInt();
     try{
          if(n) = 18) {
               System.out.println("Eligible to vaccine.");
          else {
               System.out.println("Not eligible to vaccine.");
     catch(Exception n) {
          System.out.println("It is negative value.so enter
positive value.");
Output:
Enter age:20
Eligible to vaccine.
```

```
4 Using Arraylist find the highest salary of employee
.Example (ram,HR,10000)
package test1;
import java.util.ArrayList;
     class data {
       private String name;
       private String position;
       private long salary;
       public data(String name, String position, long salary)
          this.name = name;
          this.position =position;
          this.salary = salary;
       }
       public String getName() {
          return name;
       public String getPosition() {
          return position;
       public long getSalary() {
          return salary;
       }
       @Override
       public String toString() {
```

```
return "Employee{" + "name="" + name + '\" +
               ", position="" + position + "\" +
               ", salary=" + salary +
       }
     public class Employ {
       public static void main(String[] args) {
          ArrayList<data> employeeList = new
ArrayList<>();
          // Create employee instances
          data employee1 = new data("Ilakkiya", "HR",
19000);
          data employee2 = new data("Vignesh", "Testing",
15000);
          data employee3 = new data("Pushparaj", "Finance",
12000);
          data <a href="mailto:employee4">employee4</a> = new data("Keerathana",
"Developer", 14000);
          // Add employees to the ArrayList
          employeeList.add(employee1);
          employeeList.add(employee2);
          employeeList.add(employee3);
          // Find the employee with the highest salary
          data highest = high(employeeList);
          if (highest != null) {
            System.out.println("Employee with highest
salary: " + highest);
          } else {
```

```
System.out.println("No employees found.");
       }
       public static data high(ArrayList<data>
employeeList) {
         if (employeeList.isEmpty()) {
            return null;
         }
         data highestPaidEmployee = employeeList.get(0);
         long maxSalary =
highestPaidEmployee.getSalary();
         for (data employee : employeeList) {
            if (employee.getSalary() > maxSalary) {
              maxSalary = employee.getSalary();
              highestPaidEmployee = employee;
          }
         return highestPaidEmployee;
     }
Ouptu:
Employee with highest salary: Employee { name='Ilakkiya',
position='HR', salary=19000}
5 Find the following data
```

```
package collection;
import java.util.*;
public class Mapp {
  public static void main(String[] args) {
    Map<String, ArrayList<String>> place = new
HashMap<>();
    place.put("Ram", new
ArrayList<>(Arrays.asList("Chennai", "Adyar")));
    place.put("Deva", new
ArrayList<>(Arrays.asList("Chennai", "Adyar")));
    place.put("Siva", new
ArrayList<>(Arrays.asList("Chennai", "Vadapalani")));
    place.put("Kishore", new
ArrayList<>(Arrays.asList("Kerala", "Thrissur")));
    place.put("Ganesh", new
ArrayList<>(Arrays.asList("Bangalore", "WhiteField")));
    place.put("Shivan", new
ArrayList<>(Arrays.asList("Chennai", "Chormpet")));
    displayOutput(place);
  }
  private static void displayOutput(Map<String,</pre>
ArrayList<String>> place) {
    Map<String, Integer> locationCount = new
HashMap<>();
    for (Map.Entry<String, ArrayList<String>> entry:
place.entrySet()) {
       String location = entry.getValue().get(0) + "," +
entry.getValue().get(1);
```

Output:

Kerala, Thrissur - 1 Chennai, Chormpet - 1 Chennai, Vadapalani - 1 Chennai, Adyar - 2 Bangalore, White Field - 1