```
1) Simple Interest Program (ActionEvent Example Too)
                                                                                                                                          int b = Integer.parseInt(s2);
Answer:
                                                                                                                                          int c = Integer.parseInt(s3);
import javax.swing.*;
import java.awt.*;
import java.awt.event.*;
                                                                                                                                          String result = String.valueOf(d);
public class SimpleInterest implements ActionListener {
                                                                                                                                          t4.setText(result);
 JFrame f:
  JLabel I1, I2, I3, I4;
 JTextField t1, t2, t3, t4:
                                                                                                                                        public static void main(String args[]) {
 JButton b;
                                                                                                                                         new SimpleInterest();
  SimpleInterest() {
    f = new JFrame();
    I1 = new JLabel("Amount");
   l1.setBounds(50, 50, 100, 20);
t1 = new JTextField();
                                                                                                                                     2) Window Listener Example
    t1.setBounds(120, 50, 100, 20);
                                                                                                                                     import javax.swing.*;
    12 = new JLabel("Rate");
                                                                                                                                     import java.awt.event.*;
   I2.setBounds(50, 80, 100, 20);
t2 = new JTextField();
                                                                                                                                     public class WindowExample implements WindowListener {
    t2.setBounds(120, 80, 100, 20);
                                                                                                                                        WindowExample() {
                                                                                                                                          JFrame f = new JFrame();
    I3 = new JLabel("Time");
                                                                                                                                          f.setTitle("MouseListener Example");
    I3.setBounds(50, 120, 100, 20);
                                                                                                                                          f.addWindowListener(this);
                                                                                                                                          f.setSize(400, 400):
    t3 = new JTextField():
    t3.setBounds(120, 120, 100, 20);
                                                                                                                                          f.setLayout(null);
                                                                                                                                          f.setVisible(true);
    I4 = new JLabel("Interest");
                                                                                                                                          f.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
    I4.setBounds(50, 150, 100, 20);
    t4 = new JTextField():
    t4.setBounds(120, 150, 100, 20);
                                                                                                                                        public static void main(String args[]) {
                                                                                                                                          new WindowExample();
    b = new JButton("Find Interest");
    b.setBounds(50, 180, 150, 20);
                                                                                                                                       public void windowActivated(WindowEvent e) {
    f.add(I1); f.add(t1); f.add(I2); f.add(t2); f.add(I3);
                                                                                                                                          System.out.println("Window Activated");
    f.add(t3); f.add(l4); f.add(t4); f.add(b);
    b.addActionListener(this);
                                                                                                                                        public void windowOpened(WindowEvent e) {
    f.setTitle("Simple Interest Calculation");
                                                                                                                                          System.out.println("Window Opened");
    f.setSize(500, 500);
    f.setLayout(null);
                                                                                                                                       public void windowClosed(WindowEvent e) {
    f.setVisible(true);
    f.setDefaultCloseOperation(JFrame.EXIT\_ON\_CLOSE);
                                                                                                                                          System.out.println("Window Closed");
  public void actionPerformed(ActionEvent e) {
                                                                                                                                        public void windowDeactivated(WindowEvent e) {
                                                                                                                                          System.out.println("Window Deactivated");
    String s1 = t1.getText();
    String s2 = t2.getText();
    String s3 = t3.getText();
                                                                                                                                       public void windowlconified(WindowEvent e) {
    int a = Integer.parseInt(s1);
                                                                                                                                          System.out.println("Window Iconified");
                                                                                                                                         I.setText("Mouse Released");
 public\ void\ window Closing (Window Event\ e)\ \{
    System.out.println("Window Closing");
                                                                                                                                        public static void main(String args[]) {
                                                                                                                                          new MouseExample();
 public void windowDeiconified(WindowEvent e) {
    System.out.println("Window Deiconified");
3) MouseEvent Example
Answer:
import javax.swing.*;
import java.awt.event.*;
public class MouseExample implements MouseListener {
                                                                                                                                     4) FocusEvent Example
                                                                                                                                     Answer:
  MouseExample() {
                                                                                                                                     import javax.swing.*;
    JFrame f = new JFrame();
                                                                                                                                     import java.awt.event.*;
    I = new JLabel():
    l.setBounds(50, 100, 100, 20);
                                                                                                                                     public class FocusExample implements FocusListener {
    f.add(I);
                                                                                                                                       JFrame f;
    f.setTitle("MouseListener Example");
                                                                                                                                       JButton b1, b2;
    f.addMouseListener(this);
    f.setSize(400, 400):
                                                                                                                                       FocusExample() {
    f.setLayout(null);
                                                                                                                                          f = new JFrame();
                                                                                                                                         b1 = new JButton("First");
    f.setVisible(true):
    f.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
                                                                                                                                          b1.setBounds(50, 100, 100, 20);
                                                                                                                                          b2 = new JButton("Second")
                                                                                                                                          b2.setBounds(50, 130, 100, 20);
 public void mouseEntered(MouseEvent e) {
    I.setText("Mouse Entered");
                                                                                                                                          f.add(b1):
                                                                                                                                          f.add(b2);
                                                                                                                                          b1.addFocusListener(this);
 public void mouseExited(MouseEvent e) {
                                                                                                                                          b2.addFocusListener(this);
    I.setText("Mouse Exited");
                                                                                                                                          f.setTitle("Focus Example");
                                                                                                                                          f.setSize(400, 400);
 public void mouseClicked(MouseEvent e) {
    I.setText("Mouse clicked");
                                                                                                                                          f.setVisible(true):
                                                                                                                                          f.setDefaultCloseOperation(JFrame.EXIT\_ON\_CLOSE);
 public void mousePressed(MouseEvent e) {
    I.setText("Mouse Pressed");
                                                                                                                                        public void focusGained(FocusEvent e) {
                                                                                                                                          if (e.getSource() == b1) {
                                                                                                                                            System.out.println(b1.getLabel() + " Gained");
 public void mouseReleased(MouseEvent e) {
```

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if (e.getSource() == b2) {
       System.out.println(b2.getLabel() + " Gained");
                                                                                                                                                    public static void main(String args[]) {
                                                                                                                                                      new KeywordExample();
  public void focusLost(FocusEvent e) {
  if (e.getSource() == b1) {
       System.out.println(b1.getLabel() + " Lost");
                                                                                                                                                 6) Area Calculation of Rectangle in java
    if (e.getSource() == b2) {
                                                                                                                                                 public class Area {
       System.out.println(b2.getLabel() + " Lost");
                                                                                                                                                   double length, breadth;
                                                                                                                                                   public static void main(String args[]) {
                                                                                                                                                      Area a = new Area(2, 4);
  public\ static\ void\ main(String\ args[])\ \{
                                                                                                                                                      double cal = a.product();
    new FocusExample();
                                                                                                                                                      System.out.println("Area of rectangle is : " + cal);
                                                                                                                                                   Area(double I, double b) {
                                                                                                                                                      length = I;
5) KeywordEvent Example
                                                                                                                                                      breadth = b;
import javax.swing.*;
                                                                                                                                                    double product() {
import java.awt.event.*;
                                                                                                                                                      return length * breadth;
public class KeywordExample implements KeyListener {
   KeywordExample() {
    JFrame f = new JFrame();
I = new JLabel();
                                                                                                                                                 7) Try, Catch, finally, throws Example (Keyword wala ja aayapani yei example lekni)
     l.setBounds(50, 100, 100, 20);
                                                                                                                                                 public class Keywords {
    f.add(I):
                                                                                                                                                   public static void main(String args[]) {
    f.setTitle("MouseListener Example");
                                                                                                                                                      int number = 13;
    f.addKeyListener(this);
                                                                                                                                                      try {
                                                                                                                                                        System.out.println("Try-First Statement");
    f.setSize(400, 400);
                                                                                                                                                         myMethod(number);
     f.setLayout(null);
    f.setVisible(true);
                                                                                                                                                        System.out.println ("Try-Second Statement");\\
    f.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
                                                                                                                                                      } catch (Exception e) {
                                                                                                                                                        System.out.println("An \ Exception \ Occur");
                                                                                                                                                      } finally {
                                                                                                                                                        System.out.println("Finally Statement Executed");
  public void keyPressed(KeyEvent e) {
    I.setText("KeyPressed");
                                                                                                                                                      System.out.println ("Statement not related to try, catch and finally");\\
  public void keyTyped(KeyEvent e) {
    I.setText("KeyTyped");
                                                                                                                                                   public static void myMethod(int number) throws Exception {
   System.out.println("MyMethod First Statement");
  public void keyReleased(KeyEvent e) {
                                                                                                                                                      if (number == 12)
       throw new Exception();
                                                                                                                                                 public class DatabaseExample{
    {\bf System.out.println("MyMethod\ Second\ Statement");}
                                                                                                                                                   public static void main(String args[]){
    return;
                                                                                                                                                     try{
                                                                                                                                                        Class.forName("com.mysql.jdbc.Driver");
String url = "jdbc:mysql//localhost/test";
                                                                                                                                                         Connection conn = DriverManager.getConnection(url);
                                                                                                                                                        Statement st = conn.createStatement();
ResultSet rt = st.executeQuery("SELECT * FROM Person");
8) File Read + Write Example (if both ask)
                                                                                                                                                         while(rt.next()){
                                                                                                                                                          int id = rt.getInt("P_Id");
String name = rt.getString("P_Name");
System.out.println(id+ "\t"+ name+ "\t");
//Write the simple java program that reads data from one file and writes data to another file.
import java.io.FileInputStream;
import java.io.FileOutputStream;
                                                                                                                                                      }catch(SQLException e){
                                                                                                                                                        System.out.println("Error: "+ e);
public class FileReadWrite {
  public static void main(String[] args) throws Exception
    FileInputStream in = null;
    FileOutputStream out = null;
                                                                                                                                                 10) SendEmail Example using java
    in = new FileInputStream
    ("source_FileReadWrite.txt");
                                                                                                                                                 //Write a program to send email using Java
                                                                                                                                                 import java.io.IOException;
    out = new FileOutputStream
                                                                                                                                                 import java.jo.PrintWriter:
                                                                                                                                                 import java.net.InetAddress;
                                                                                                                                                 import java.net.Socket;
import java.util.*;
    ("destination_FileReadWrite.txt");
    int byteData;
    while (true) {
                                                                                                                                                 public class JavaEmail {
       byteData = in.read();
                                                                                                                                                   public static void main(String[] args) throws IOException {
                                                                                                                                                      Email\ email\ =\ new\ Email\ ("ashok8786@gmail.com",\ "ashok9860@hotmail.com",\ "Test\ email.");
       if (byteData == -1) {
                                                                                                                                                      email.send();
         break;
       out.write(byteData);
                                                                                                                                                 }
    if (in != null)
                                                                                                                                                 class Email {
       in.close();
                                                                                                                                                   private Scanner in = null;
    if (out != null)
                                                                                                                                                    private PrintWriter out = null;
       out.close();
                                                                                                                                                   private final String SMTP_SERVER = "smtp.wlink.com.np";
                                                                                                                                                    private final int SMTP_PORT = 25;
                                                                                                                                                   private String from = null;
private String to = null;
                                                                                                                                                    private String message = null;
9) JDBC Program Example
                                                                                                                                                   public Email(String from, String to, String message) {
import java.sql.Driver;
                                                                                                                                                      this.from = from;
                                                                                                                                                      this.to = to;
import java.sgl.Connection:
import java.sql.Statement;
                                                                                                                                                      this.message = message;
import java.sql.SQLException;
import java.sql.ResultSet;
```

I.setText("KeyReleased");

private void send(String s) throws IOException {

```
System.out.println(">> " + s);
                                                                                                                                           <body>
    out.print(s.replaceAll("\n", "\r\n"));
    out.print("\r\n");
                                                                                                                                               for(int i = 1; i<=10; i++)
    out.flush();
                                                                                                                                                 out.println("Kathmandu,Nepal<br>");
  private void receive() throws IOException {
                                                                                                                                             %>
    String line = in.nextLine();
                                                                                                                                           </body>
    System.out.println(" " + line);
                                                                                                                                           </html>
  public void send() throws IOException {
    Socket socket = new Socket(SMTP_SERVER, SMTP_PORT);
    in = new Scanner(socket.getInputStream());
                                                                                                                                           12) An array is called balanced if it's even numbered elements (a[0], a[2], etc.) are even and its odd
                                                                                                                                           numbered elements (a[1], a[3], etc.) are odd. Write a function named balanced that accepts an array of
                                                                                                                                           integers which returns 1 if the array is balanced and returns 0 otherwise.
    PrintWriter(socket.getOutputStream(), true);
                                                                                                                                           Answer:
    String hostName = InetAddress.getLocalHost()
                                                                                                                                           public class ArrayQuestion {
         .getHostName();
                                                                                                                                             static int[] array = \{6, 4, 2, 3, 12\};
    receive();
    send("HELO " + hostName);
                                                                                                                                             public static void main(String[] arr) {
    receive():
                                                                                                                                               System.out.println(isBalanced(array));
    send("MAIL FROM: <" + from + ">");
    receive();
    send("RCPT TO: <" + to + ">");
                                                                                                                                             public static int isBalanced(int[] a) {
    receive();
                                                                                                                                               int count = 1;
    send("DATA");
                                                                                                                                               for (int i = 0; i < array.length; i += 2) {
                                                                                                                                                 if (a[i] % 2 != 0) {
    receive();
     send(message);
                                                                                                                                                    count = 0;
    send("."):
                                                                                                                                                    break:
    socket.close():
                                                                                                                                               for (int j = 1; j < array.length; j += 2) {
                                                                                                                                                  if (a[j] % 2 == 0) {
                                                                                                                                                    count = 0:
                                                                                                                                                    break;
11)A program showing "Kathamandu, Nepal" 10 times using JSP
                                                                                                                                                 }
<!-- Write a simple JSP program to display "Kathmandu, Nepal" 10 times. -->
                                                                                                                                               return count;
<%--
  Document : Display10Times
  Created on : Jun 26, 2020, 9:13:20 AM
  Author: dipen
                                                                                                                                           13) MouseAdapter Example (Adapter Class Example).
<%@page contentType="text/html" pageEncoding="UTF-8"%>
                                                                                                                                           import java.awt.event.*;
<!DOCTYPE html>
                                                                                                                                           import javax.swing.JFrame;
<html>
  <head>
                                                                                                                                           import javax.swing.JLabel;
    <meta http-equiv="Content-Type" content="text/html;charset=UTF-8">
    <title>Display Address 10 Times</title>
                                                                                                                                           public class MouseAdapterExample extends MouseAdapter {
  </head>
  JLabel I:
                                                                                                                                             public static void main(String args[]) {
  MouseAdapterExample() {
                                                                                                                                               new GridLayoutExample();
    f = new JFrame();
    I = new JLabel();
    I.setBounds(50, 50, 100, 20);
    f.add(I):
    f.addMouseListener(this);
                                                                                                                                           15) GroupLayout Example
    f.setTitle("Mouse Adapter Example");
    f.setSize(400, 400);
                                                                                                                                           import javax.swing.*;
    f.setLayout(null);
                                                                                                                                           import java.awt.*
    f.setVisible(true);
    f.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
                                                                                                                                           public class GroupLayoutExample {
                                                                                                                                             GroupLayoutExample() {
    JFrame f = new JFrame();
  public void mouseClicked(MouseEvent e) {
                                                                                                                                               JLabel label = new JLabel("Click Here");
    I.setText("Mouse clicked");
                                                                                                                                               JButton button = new JButton("This Button");
                                                                                                                                               Container contentPanel = f.getContentPane();
                                                                                                                                               GroupLayout groupLayout = new GroupLayout(contentPanel); contentPanel.setLayout(groupLayout);
  public static void main(String args[]) {
    new MouseAdapterExample();
                                                                                                                                               groupLayout.setHorizontalGroup(
                                                                                                                                                    groupLayout.createSequentialGroup()
                                                                                                                                                         .addComponent(label)
                                                                                                                                                         .addGap(10, 20, 100)
14) GridLayout Example
                                                                                                                                                         .addComponent(button));
Answer:
import javax.swing.*;
                                                                                                                                               groupLayout.setVerticalGroup(
import java.awt.*;
                                                                                                                                                    group Layout.create Parallel Group (Group Layout.Alignment.BASELINE) \\
                                                                                                                                                        .addComponent(label)
                                                                                                                                                         .addComponent(button));
public class GridLayoutExample {
  JFrame f:
                                                                                                                                               f.setTitle("GroupLayout Example");
  JButton b1, b2, b3, b4;
                                                                                                                                               f.pack();
                                                                                                                                               f.setVisible(true);
  GridLavoutExample() {
                                                                                                                                               f.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
    f = new JFrame();
    b1 = new JButton("1"):
                                                                                                                                             public static void main(String args[]) {
    b2 = new JButton("2");
    b3 = new JButton("3");
                                                                                                                                               new GroupLayoutExample();
    b4 = new JButton("4");
                                                                                                                                          , 16) Design a GUI form using swing with a text field, a text label for displaying the input message "Input any string", and three buttons with caption "Check Palindrome", "Reverse", "Find Vowels". Write a complete
    f.add(b1)
    f.add(b2);
                                                                                                                                           program for above scenario and for checking palindrome in first button, reverse it after clicking second
    f.add(b3);
    f.add(b4):
                                                                                                                                           button and extract the vowels from it after clicking third button
    f.setTitle("GridLayout Example");
f.setLayout(new GridLayout(2, 2));
                                                                                                                                           import javax.swing.*;
                                                                                                                                           import java.awt.event.*;
    f.setSize(300, 300);
    f.setVisible(true);
                                                                                                                                           public\ class\ Checker\ implements\ Action Listener\ \{
    f.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
                                                                                                                                             JFrame f;
                                                                                                                                             JTextField t1. t2:
```

```
JButton b1, b2, b3:
                                                                                                                                                 } else if (e.getSource() == b2) {
                                                                                                                                                   char[] vowel = { 'a', 'e', 'i', 'o', 'u', 'A', 'E', 'I', 'O', 'U' };
String input = t1.getText();
  Checker() {
    f = new JFrame();
    I1 = new JLabel("Enter Words");
                                                                                                                                                   int length = input.length();
    I1.setBounds(50, 50, 100, 20);
                                                                                                                                                   char[] extractedVowel = new char[length];
    t1 = new JTextField();
                                                                                                                                                   String showVowel = "";
    t1.setBounds(130, 50, 300, 20);
                                                                                                                                                   for (int i = 0; i \le length - 1; i++) {
                                                                                                                                                     for (int j = 0; j <= vowel.length - 1; j++) {
    12 = new JLabel("Result");
                                                                                                                                                        if (input.charAt(i) == vowel[j]) {
  extractedVowel[i] = input.charAt(i);
    12.setBounds(50, 80, 100, 20);
    t2 = new JTextField();
                                                                                                                                                          showVowel += String.valueOf(extractedVowel[i]);
    t2.setBounds(130, 80, 300, 20);
                                                                                                                                                     }
    b1 = new JButton("Palindrome");
                                                                                                                                                   t2.setText("Vowels: " + showVowel);
    b1.setBounds(50, 120, 120, 20):
    b2 = new JButton("Find Vowels");
                                                                                                                                                 } else {
    b2.setBounds(50, 150, 120, 20);
b3 = new JButton("Reverse");
                                                                                                                                                   String text = "";
                                                                                                                                                   String input = t1.getText();
    b3.setBounds(50, 180, 120, 20);
                                                                                                                                                   int length = input.length();
                                                                                                                                                   for (int i = length - 1; i >= 0; i--) {
    f.add(I1);
                                                                                                                                                     text += input.charAt(i);
    f.add(t1);
                                                                                                                                                   t2.setText("Reverse String is: " + text):
    f.add(I2):
     f.add(t2);
    f.add(b1):
     f.add(b2);
    f.add(b3);
                                                                                                                                              public static void main(String args[]) {
    b1.addActionListener(this):
                                                                                                                                                new Checker();
    b2.addActionListener(this);
    b3.addActionListener(this):
    f.setTitle("Checker");
     f.setSize(600, 400);
                                                                                                                                            17) Write a simple Servlet program to display "Kathmandu, Nepal" 10 times.
    f.setLavout(null):
    f. set Default Close Operation (JF rame. EXIT\_ON\_CLOSE); \\
                                                                                                                                            import java.jo.IOException:
                                                                                                                                            import java.io.PrintWriter;
                                                                                                                                            import javax.servlet.ServletException;
  public void actionPerformed(ActionEvent e) {
                                                                                                                                            import javax.servlet.annotation.WebServlet;
    if (e.getSource() == b1) {
                                                                                                                                            import javax.servlet.http.HttpServlet;
      String input = t1.getText();
String text = "";
                                                                                                                                            import\ javax. servlet. http. Http Servlet Request;
                                                                                                                                            import javax.servlet.http.HttpServletResponse;
       int length = input.length();
                                                                                                                                            @WebServlet(urlPatterns ={"/Display10Times"})
                                                                                                                                            public class Display10Times extends HttpServlet
       for (int i = length - 1; i >= 0; i--) {
         text += input.charAt(i);
                                                                                                                                             protected void doGet(HttpServletRequest request, HttpServletResponse response)
                                                                                                                                             throws ServletException, IOException
       if (text.equalsIgnoreCase(input)) {
         t2.setText("String is palindrome.");
                                                                                                                                             response.setContentType("text/html;charset=UTF-8");
                                                                                                                                            try (PrintWriter out = response.getWriter())
       } else {
         t2.setText("String isn't a palindrome.");
       out.println("<!DOCTYPE html>");
out.println("<html>");
                                                                                                                                                 con.close();
                                                                                                                                             }
       out.println("<head>");
        out.println("<title>Message</title>");
       for(int i = 1; i<=10; i++)
                                                                                                                                            19) Write a program to execute multiple threads in priority base.
               out.println("<h1>Kathmandu Nepal.</h1>");
                                                                                                                                            class First extends Thread {
       out.println("</head>"):
                                                                                                                                              @Override
                                                                                                                                              public void run() {
                                                                                                                                                 for (int i = 1; i <= 10; i++) {
18) PreparedStatement Example.
                                                                                                                                                   System.out.println(i);
Answer:
import java.sql.*;
                                                                                                                                            }
public class GFG {
                                                                                                                                            class Second extends Thread (
  // Driver Code
                                                                                                                                              @Override
   public static void main(String[] args) throws Exception
                                                                                                                                               public void run() {
                                                                                                                                                for (int i = 11; i <= 20; i++) {
                                                                                                                                                   System.out.println(i);
    // Register Driver Class
    Class.forName("org.apache.derby.jdbc.ClientDriver");
                                                                                                                                            }
    // Connection to your database
     Connection con = DriverManager.getConnection();
                                                                                                                                            class Third extends Thread {
                                                                                                                                               @Override
    // Query which needs parameters
                                                                                                                                              public void run() {
    String query
= "Select * from students where age> ? and name = ?";
                                                                                                                                                 for (int i = 21; i <= 30; i++) {
                                                                                                                                                   System.out.println(i);
    // Prepare Statement
    PreparedStatement myStmt
        con.prepareStatement(query);
                                                                                                                                            public class ThreadPriority {
                                                                                                                                              public static void main(String[] args) throws InterruptedException {
    // Set Parameters
    myStmt.setInt(1, 20);
                                                                                                                                                 Thread t1 = new First();
                                                                                                                                                 Thread t2 = new Second();
    myStmt.setStrin(2, 'Prateek');
                                                                                                                                                 Thread t3 = new Third();
    // Execute SQL query
                                                                                                                                                 t1.setPriority(Thread.MAX PRIORITY);
    ResultSet myRs = myStmt.executeQuery();
                                                                                                                                                 t2.setPriority(Thread.MIN_PRIORITY);
                                                                                                                                                 t3.setPriority (Thread.NORM\_PRIORITY);
    System.out.println('Age Name');
                                                                                                                                                 t1.start();
                                                                                                                                                 t2.start()
    // Display function to show the Resultset
                                                                                                                                                 t3.start();
     while (myRs.next()) {
      String Name = rs.getString("name");
       int age = rs.getInt("age");
       System.out.println(Name + " " + age);
                                                                                                                                            20) Write a Java program using JDBC to extract name of those students who live in Kathmandu district,
                                                                                                                                            assuming that the student table has four attributes (ID, name, district, and age)
                                                                                                                                            Answer:
    // Close the connection
                                                                                                                                            import java.sql.*;
```

JLabel I1. I2:

}}

```
String url = "jdbc:mariadb://localhost:3306/JavaJDBC";
String username = "root";
    String password = "";
    Connection connection = DriverManager.getConnection(url, username, password);
    Statement statement = connection.createStatement();
String sql = "select * from students where district='kathmandu'";
    ResultSet resultSet = statement.executeQuery(sql);
     while (resultSet.next()) {
      System.out.printf("%d, %s, %s, %d \n", resultSet.getInt("id"), resultSet.getString("name"),
            resultSet.getString("district"), resultSet.getInt("age"));
    statement.close();
    connection.close();
21) Write a program to create a JSP web form to take input of a student and submit it to second JSP file
which may simply print the values of form submission. [2075].
// StudentForm.jsp
Document : StudentForm
 Created on : Jun 26, 2020, 9:26:23 AM
Author: dipen
<head>
 <meta http-equiv="Content-Type" content="text/html;
charset=UTF-8">
 <title>Student Form.</title>
 </head>
 <hody>
 <h1>Fill up the form!</h1>
 <form action="PrintDetail.jsp" method="POST">
 Name: <input type="text" name="name"><br><br>
Roll No.: <input type="text" name="roll"><br>
Address: <input type="text" name="address"><br>
br>
Address: <input type="text" name="address"><br>
 <input type="submit" value="Submit">
 </form>
 </body>
</html>
//PrintDetail.jsp
Document : PrintDetail
Created on : Jun 26, 2020, 9:33:47 AM
```

public class StudentDatabase {

public static void main(String[] args) throws SQLException {

```
Author : dipen
<%@page contentType="text/html" pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
 <head>
<meta http-equiv="Content-Type" content="text/html;
charset=UTF-8">
<title>Print Student Details.</title>
 </head>
 <body>
 <h1>Student Details!</h1>
 Name: <%= request.getParameter("name") %><br>
Roll No.: <%= request.getParameter("roll") %><br>
Address: <%= request.getParameter("address") %><br>
</html>
22) FileWriter Example (writing the data in the file testout.txt using Java FileWriter class.)
Answer:
package com.javatpoint;
import java.io.FileWriter;
public class FileWriterExample {
  public static void main(String args[]) {
       FileWriter fw = new FileWriter("D:\\testout.txt");
       fw.write("Welcome to javaTpoint.");
       fw.close():
     } catch (Exception e) {
       System.out.println(e);
     System.out.println("Success...");
23) FileReader Example (reading the data from the text file testout.txt using Java FileReader class).
package com.javatpoint;
import java.io.FileReader;
public class FileReaderExample {
  public static void main(String args[]) throws Exception {
   FileReader fr = new FileReader("D:\\testout.txt");
     while ((i = fr.read()) != -1)
       System.out.print((char) i);
     fr.close();
```