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NPTEL (<https://swayam.gov.in/explorer?ncCode=NPTEL>) » Programming In Java (course)

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## Course outline

About NPTEL  
( )

How does an  
NPTEL online  
course work?  
( )

Week 0 : ( )

Week 1 : ( )

Week 2 : ( )

Week 3 : ( )

Week 4 : ( )

Week 5 : ( )

Week 6 : ( )

# Week 10:Assignment 10

Assignment not submitted

Due date: 2025-10-01, 23:59 IST.

1) Which class provides methods to work with URLs? 1 point

a. URLConnection

b. HttpURL

c. URL

d. URLs

☐ a.

☐ b.

☐ c.

☐ d.

2) 1 point

**Week 7 : ()****Week 8 : ()****Week 9 : ()****Week 10 : ()**

☒ Lecture 46 :  
Demonstration-  
XVII (unit?  
unit=90&lesson  
=91)

☐ Lecture 47 :  
Demonstration-  
XVIII (unit?  
unit=90&lesson  
=92)

☐ Lecture 48 :  
Networking  
with Java (unit?  
unit=90&lesson  
=93)

☐ Lecture 49 :  
Demonstration-  
XIX (unit?  
unit=90&lesson  
=94)

☐ Lecture 50 :  
JDBC - I (unit?  
unit=90&lesson  
=95)

☐ **Quiz: Week  
10:Assignment  
t 10  
(assessment?  
name=610)**

☐ W10  
Programming  
Assignments 1  
(/noc25\_cs110/  
progassignment  
t?name=555)

☐ W10  
Programming  
Assignments 2  
(/noc25\_cs110/

**Consider the code given below:**

```
import javax.swing.*;

public class NPTEL extends JFrame {
    JButton button;

    public NPTEL() {
        button = new JButton("Programming in Java");
        add(button);
        setSize(300, 200);
        setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
        setVisible(true);
    }

    public static void main(String[] args) {
        new NPTEL();
    }
}
```

**What will be the output of the code given above?**

- a. Creates a JFrame with a JButton labeled "Programming in Java"
- b. Compiles with errors
- c. Displays a message dialog
- d. Creates a JPanel with a JButton labeled "Programming in Java"

- ☐ a.
- ☐ b.
- ☐ c.
- ☐ d.

3)

**1 point**

progassignment?  
t?name=556)

☐ W10  
Programming  
Assignments 3  
(/noc25\_cs110/  
progassignment?  
t?name=557)

☐ W10  
Programming  
Assignments 4  
(/noc25\_cs110/  
progassignment?  
t?name=559)

☐ W10  
Programming  
Assignments 5  
(/noc25\_cs110/  
progassignment?  
t?name=558)

**Week 11 : ()**

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Transcripts ()**

**Consider the code given below.**

```
import javax.swing.*;
import java.awt.event.*;
public class NPTEL {
    public static void main(String[] args) {
        JFrame frame = new JFrame("NPTEL Java Course");
        JButton button = new JButton("Click Me");
        button.setBounds(50, 100, 100, 40);
        button.addActionListener(new ActionListener() {
            public void actionPerformed(ActionEvent e) {
                JOptionPane.showMessageDialog(null, "Welcome to the course");
            }
        });
        frame.add(button);
        frame.setSize(300, 200);
        frame.setLayout(null);
        frame.setVisible(true);
    }
}
```

**What will be the output of the code given above?**

- a. The program exits
- b. A message dialog with the text "Welcome to the course" is displayed
- c. The button label changes to "Welcome to the course"
- d. Nothing happens

- ☐ a.
- ☐ b.
- ☐ c.
- ☐ d.

4) **What does JDBC stand for?**

**1 point**

- a. Java Data Base Connectivity
- b. Java Development Base Connection
- c. Java Distributed Binary Code
- d. Java Data Binding Channel

- ☐ a.
- ☐ b.
- ☐ c.
- ☐ d.

5)

**1 point**

Consider the code given below:

```
import javax.swing.*;
public class NPTEL {
    public static void main(String[] args) {
        JFrame frame = new JFrame("NPTEL Java Course");
        String[] colors = {"Red", "Green", "Blue"};
        JComboBox<String> comboBox = new JComboBox<>(colors);
        comboBox.setBounds(50, 50, 90, 20);
        frame.add(comboBox);
        frame.setSize(300, 200);
        frame.setLayout(null);
        frame.setVisible(true);
    }
}
```

What will be the output of the code given above?

- a. A frame with a list of colors displayed as buttons
- b. A frame with a combo box containing options "Red", "Green", and "Blue"
- c. A frame with radio buttons for selecting colors
- d. A frame with checkboxes for selecting colors

- ☐ a.
- ☐ b.
- ☐ c.
- ☐ d.

6)

1 point

Consider the code given below.

```
import java.net.*;
public class NPTEL {
    public static void main(String[] args) {
        try {
            InetAddress address = InetAddress.getByName("nptel.ac.in");
            System.out.println("Host Name: " + address.getHostName());
            System.out.println("IP Address: " + address.getHostAddress());
        } catch (Exception e) {
            System.out.println(e);
        }
    }
}
```

What does this above Java code snippet do?

- a. Just prints the IP address of the local machine
- b. Prints the IP address and host name of the local machine
- c. Prints the IP address and host name of "nptel.ac.in"
- d. Just prints the IP address of "nptel.ac.in"

- ☐ a.
- ☐ b.

- ☐ c.
- ☐ d.

7)

1 point

Consider the following code.

```
import java.sql.*;

public class NPTEL {
    public static void main(String[] args) {
        try {
            Class.forName("com.mysql.jdbc.Driver");
            Connection con = DriverManager.getConnection(
                "jdbc:mysql://localhost:3306/mydatabase",
                "username", "password");
            Statement stmt = con.createStatement();
            ResultSet rs = stmt.executeQuery("SELECT * FROM employees");
            while (rs.next()) {
                System.out.println(rs.getString(1)+" "+rs.getString(2));
            }
            con.close();
        } catch (Exception e) {
            System.out.println(e);
        }
    }
}
```

What does the above code snippet do?

- a. Connects to a MySQL database, retrieves data from the "employees" table, and prints it
- b. Inserts data into the "employees" table of a MySQL database
- c. Deletes data from the "employees" table of a MySQL database
- d. Updates data in the "employees" table of a MySQL database

- ☐ a.
- ☐ b.
- ☐ c.
- ☐ d.

8)

1 point

Consider the code given below:

```
import java.sql.*;
public class NPTEL {
    public static void main(String[] args) {
        try {
            Class.forName("com.mysql.jdbc.Driver");
            Connection con = DriverManager.getConnection(
                "jdbc:mysql://localhost:3306/mydatabase",
                "username", "password");
            String query="INSERT INTO employees (name,age)VALUES(?, ?)";
            PreparedStatement pstmt = con.prepareStatement(query);
            pstmt.setString(1, "John");
            pstmt.setInt(2, 30);
            int rowsAffected = pstmt.executeUpdate();
            System.out.println(rowsAffected + " row(s) inserted.");
            con.close();
        } catch (Exception e) {
            System.out.println(e);
        }
    }
}
```

What will be the code given above do?

- a. Retrieves data from the "employees" table
- b. Inserts a new employee record into the "employees" table
- c. Updates employee records in the "employees" table
- d. Deletes employee records from the "employees" table

- ☐ a.
- ☐ b.
- ☐ c.
- ☐ d.

9)

1 point

Which of the following option is TRUE regarding the below statement?

```
Connection con = DriverManager.getConnection(
    "jdbc:mysql://localhost:3306/npTEL", "npTEL", "java");
```

- a. 3307 is the MySQL port
- b. Database name is 'JAVA'
- c. The database server is hosted on IP 192.168.0.1
- d. Password for 'npTEL' user is 'java'

- ☐ a.
- ☐ b.
- ☐ c.
- ☐ d.

10)

1 point

**Which package in Java contains the classes and interfaces for JDBC?**

**a. java.sql**

**b. java.io**

**c. java.db**

**d. java.net**

☐ a.

☐ b.

☐ c.

☐ d.

You may submit any number of times before the due date. The final submission will be considered for grading.

**Submit Answers**