**University of Engineering and Technology Peshawar**

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TECHNOLOGY

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PESHAWAR

**Course Title: Object Oriented Programming**

**[CS-104]**

**Lab Task # 10**

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**Date: 12/01/2025**

**Department of CS & IT, UET Peshawar**

**Task # Java-Fx**

**D**

HelloApplication.java

HelloController.java

1

package example.app;

**D**

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import javafx.fxml.FXML;

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import javafx.scene.control.\*;

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public class HelloController {

@FXML

private TextField studentNameField;

@FXML

private TextField departmentField; @FXML

private TextField addressField;

@FXML

private Slider courseSlider;

@FXML

private ListView<String> courseListView;

@FXML

private ProgressBar progressBar; @FXML

private TextArea summaryTextArea;

public void initialize() {

// Populate the ListView with sample courses

courseListView.getItems().addAll**(**

es: "Math 101", "Science 102", "History 103", "English 104", "Physics 105"

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@FXML

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);

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// Bind the progress bar to the slider value

progressBar.progressProperty().bind(courseSlider.valueProperty().divide (5));

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}

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@FXML 1 usage

HelloApplication.java

HelloController.java

public class HelloController {

@FXML 1 usage

public void handleSubmit() {

String studentName = studentNameField.getText();

String department departmentField.getText(); String address = addressField.getText();

int numberOfCourses = (int) courseSlider.getValue();

var selectedCourses = courseListView.getSelectionModel().getSelectedItems();

if (studentName.isEmpty() || department.isEmpty() || address.isEmpty()) {

summaryTextArea.setText("Please fill out all student details!");

return;

}

}

StringBuilder summary = new StringBuilder();

summary.append("Student Name: ").append(studentName).append("\n");

summary.append("Department: ").append(department).append("\n");

summary.append("Address: ").append(address).append("\n\n");

summary.append("Number of Courses: ").append(numberOfCourses).append("\n");

summary.append("Selected Courses: \n");

for (String course: selectedCourses) {

}

summary.append("-").append(course).append("\n");

summaryTextArea.setText(summary.toString());

@FXML 1 usage

public void handleClear() {

studentNameField.clear();

departmentField.clear();

@ E

A App

Version control ~

HelloController.java

HelloApplication.java

package example.app;

public class HelloApplication extends Application

@Override

public void start (Stage stage) throws IOException {

FXMLLoader fxml Loader = new FXMLLoader (HelloApplication.class.getResource( name: "hello-view.fxml"));

Scene scene = new Scene(fxmlLoader.load(), v: 320, vl: 240);

stage.setTitle("Hello!");

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> import ...

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}

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20 D

public static void main(String[] args) {

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Launch();

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}

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stage.setScene(scene);

stage.show();

loController.java

plication extends Application

**Output #**

Hello!

X

t(Stage stage) throws IOException {

Student Details X

Course Selection Summary

xmlLoader = new FXMLLoader (HelloApplicat

= new Scene(fxmlLoader.load(),

le("Hello!");

v: 320,

Student Name:

Waqas

Department:

Computer Science

ne (scene);

Address:

Mardan

id main(String[] args) {

xml"));

Current File

X

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A1

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plication {

s IOException {

Loader (HelloApplicat

ler.load(), v: 320,

Hello!

Student Details Course Selection X Summary

Select Number of Courses:

1

Available Courses:

Math 101

Science 102

History 103

s) {

Hello!

Student Details Course Selection Summary X

Student Name: Waqas

Department: Computer Science

Address: Mardan

Number of Courses: 2

Selected Courses:

Submit

Clear

13°C

Haze

English 104

Physics 105

X

Fxml"));

X

1/12/2025

Q Search

7:07 PM