

JAVA Lab

3 Mar, 2020

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Question 1 :

```
class ArrayOp<T>
{
    void printArray(T arr[])
    {
        System.out.println("The elements of the array are : ");
        for(int i=0;i<arr.length;i++)
        {
            System.out.println(arr[i]);
        }
    }
}

class q1
{
    public static void main(String[] args)
    {
        ArrayOp<Integer> ob1 = new ArrayOp<Integer>();
        ArrayOp<String> ob2 = new ArrayOp<String>();
        Integer arr[] = {1, 2, 3};
        String arr2[] = {"Hello", "World"};
        ob1.printArray(arr);
        ob2.printArray(arr2);
    }
}
```

```
C:\Users\student\Documents\<del>3Mar2020</del>>javac q1.java
C:\Users\student\Documents\<del>3Mar2020</del>>java q1
The elements of the array are :
1
2
3
The elements of the array are :
Hello
World
```

Question 2 :

```
/*
 * To change this license header, choose License Headers in Project Properties.
 * To change this template file, choose Tools | Templates
 * and open the template in the editor.
 */
```

```
package registration;
```

```
import java.io.FileInputStream;
import javafx.application.Application;
import javafx.collections.FXCollections;
import javafx.event.ActionEvent;
import javafx.event.EventHandler;
import javafx.scene.Scene;
import javafx.scene.control.Button;
import javafx.scene.control.ComboBox;
import javafx.scene.control.Label;
import javafx.scene.control.Separator;
import javafx.scene.control.TextField;
import javafx.scene.image.ImageView;
import javafx.scene.layout.FlowPane;
import javafx.scene.layout.HBox;
import javafx.scene.layout.StackPane;
import javafx.stage.Stage;
import javafx.scene.layout.VBox;
```

```

import javafx.scene.text.Font;
import javafx.scene.text.FontPosture;
import javafx.scene.text.FontWeight;
import javafx.scene.image.Image;
import java.io.*;

/**
 *
 * @author student
 */
public class Registration extends Application {

    @Override
    public void start(Stage primaryStage) {

        final ImageView imgview = new ImageView();
        final Image image2 = new Image(Registration.class.getResourceAsStream("image.png"));
        imgview.setImage(image2);
        imgview.setFitHeight(60);
        HBox hbox9 = new HBox();
        hbox9.getChildren().addAll(imgview);
        hbox9.setMaxHeight(60.0);

        Label title = new Label("College Application");
        title.setFont(Font.font("arial", FontWeight.BOLD, FontPosture.REGULAR, 20));

        Separator separator = new Separator();
        separator.setMaxWidth(400);

        Button btn = new Button("Submit");
        btn.setOnAction(new EventHandler<ActionEvent>() {
            @Override
            public void handle(ActionEvent event) {
                System.out.println("Form has been submitted!!");
            }
        });

        Label name = new Label("Name *");
        name.setFont(Font.font("arial", FontWeight.BOLD, FontPosture.REGULAR, 15 ));
        Label fname = new Label("First");
        Label lname = new Label("Last");
        TextField fna = new TextField();
    }
}

```

```

TextField lna = new TextField();
HBox hbox1 = new HBox();
HBox hbox2 = new HBox();
hbox1.getChildren().addAll(fna, lna);
hbox1.setSpacing(10);
hbox2.getChildren().addAll(fname, lname);
hbox2.setSpacing(150);

Label address = new Label("Address *");
address.setFont(Font.font("arial", FontWeight.BOLD, FontPosture.REGULAR, 15 ));
TextField straddrinp = new TextField();
straddrinp.setMaxWidth(500);
Label straddr = new Label("Street Address");
TextField addrln2inp = new TextField();
addrln2inp.setMaxWidth(500);
Label addrln2 = new Label("Address line 2");
TextField cityinp = new TextField();
TextField stateinp = new TextField();
HBox hbox3 = new HBox();
hbox3.getChildren().addAll(cityinp, stateinp);
hbox3.setSpacing(10);
Label city = new Label("City");
Label state = new Label("State / Province / Region");
HBox hbox4 = new HBox();
hbox4.getChildren().addAll(city, state);
hbox4.setSpacing(130);
TextField postalinp = new TextField();
String countries_list[] = { "India", "Pakistan", "Afganistan", "Sri Lanka" };
ComboBox countryinp = new ComboBox(FXCollections.observableArrayList(coun-
tries_list));
HBox hbox5 = new HBox();
hbox5.getChildren().addAll(postalinp, countryinp);
hbox5.setSpacing(10);
Label postal = new Label("Postal / Zip Code");
Label country = new Label("Country");
HBox hbox6 = new HBox();
hbox6.getChildren().addAll(postal, country);
hbox6.setSpacing(70);

Label phone = new Label("Phone *");
phone.setFont(Font.font("arial", FontWeight.BOLD, FontPosture.REGULAR, 15 ));
TextField p1 = new TextField();
TextField p2 = new TextField();

```

```

TextField p3 = new TextField();
p1.setMaxWidth(50);
p2.setMaxWidth(50);
p3.setMaxWidth(50);
Label dash = new Label("-");
Label dash1 = new Label("-");
HBox hbox7 = new HBox();
hbox7.getChildren().addAll(p1, dash, p2, dash1, p3);
hbox7.setSpacing(30);
Label h1 = new Label("###");
Label h2 = new Label("###");
Label h3 = new Label("####");
HBox hbox8 = new HBox();
hbox8.getChildren().addAll(h1, h2, h3);
hbox8.setSpacing(100);

VBox root = new VBox();
//FlowPane root = new FlowPane();
root.getChildren().addAll(hbox9, title, separator, name, hbox1, hbox2, address, straddrinp,
straddr, addrln2inp, addrln2, hbox3, hbox4, hbox5, hbox6, phone, hbox7, hbox8, btn);
root.setSpacing(10);

Scene scene = new Scene(root, 700, 700);

primaryStage.setTitle("Hello World!");
primaryStage.setScene(scene);
primaryStage.show();
}

/**
 * @param args the command line arguments
 */
public static void main(String[] args) {
    launch(args);
}
}

```