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**Reg : 19BCE1369**
**Week-12**

**Q1.**
```
import javafx.application.Application;
import javafx.scene.Scene;
import javafx.scene.control.Button;
import javafx.stage.Stage;
import javafx.scene.layout.HBox;

public class Q1 extends Application {

@Override
public void start(Stage primaryStage) throws Exception {
Button btn1 = new Button("Button 1");
Button btn2 = new Button("Button 2");
Button btn3 = new Button("Button 3");
Button btn4 = new Button("Button 4");
Button btn5 = new Button("Button 5");
Button btn6 = new Button("Button 6");
HBox hbox = new HBox(20,btn1,btn2,btn3,btn4,btn5,btn6);
Scene scene = new Scene(hbox);
primaryStage.setScene(scene);
primaryStage.setTitle("Excercise 12_1");
primaryStage.show();
}

public static void main(String[] args) {
launch(args);
}
}
```
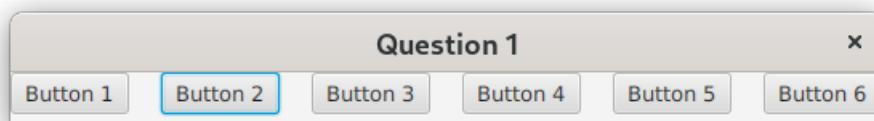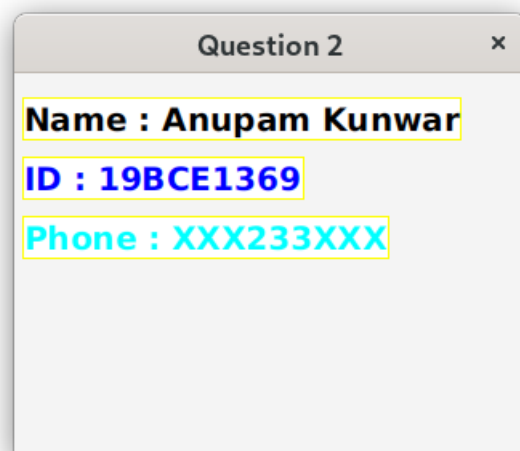
**Output :**

.

**Q2.**
```java
import javafx.application.Application;
import javafx.geometry.Insets;
import javafx.scene.Scene;
import javafx.scene.control.Label;
import javafx.scene.layout.VBox;
import javafx.stage.Stage;
public class Q2 extends Application {
@Override
public void start(Stage primaryStage) {
VBox rootPane = new VBox(10);
rootPane.setPadding(new Insets(15, 5, 15, 5));
Scene scene = new Scene(rootPane, 320, 240);
String commonStyles = "-fx-background-color: white;" +"-fx-font-family: 'Times New Roman';" +"-fx-font-size: 20px;" +"-fx-font-weight: bold;" +"-fx-border-style: solid;" +"-fx-border-color: yellow;";
Label label1 = new Label("Name : Anupam Kunwar");
Label label2 = new Label("ID : 19BCE1369");
Label label3 = new Label("Phone : XXX233XXX");
label1.setStyle(commonStyles+"-fx-text-fill: black;");
label2.setStyle(commonStyles+"-fx-text-fill: blue;");
label3.setStyle(commonStyles+"-fx-text-fill: cyan;");
rootPane.getChildren().addAll(label1,label2,label3);
primaryStage.setScene(scene);
primaryStage.centerOnScreen();
primaryStage.setTitle("Question 2");
primaryStage.show();
}
public static void main(String[] args) {
launch(args);
}
}
```

**Output :**

**Q3.**

```java
import javafx.application.Application;
import javafx.geometry.Pos;
import javafx.scene.Scene;
import javafx.scene.image.Image;
import javafx.scene.image.ImageView;
import javafx.scene.layout.GridPane;
import javafx.stage.Stage;

public class Q3 extends Application {

@Override
public void start(Stage primaryStage) {

GridPane pane = new GridPane();
pane.setAlignment(Pos.CENTER);
for (int i = 0; i < 3; i++) {
for (int j = 0; j < 3; j++) {
int random = (int)(Math.random() * 3);
if (random != 2) {
String image = (random > 0) ? "/images/x.gif" : "/images/o.gif";
pane.add(new ImageView(new Image(image)), j, i);
}
}
}
Scene scene = new Scene(pane, 150, 150);
primaryStage.setTitle("Q3");
primaryStage.setScene(scene);
primaryStage.show();
}

public static void main(String[] args) {

Application.launch(args);

}

}
```

**Output :**