**TASK 3**

You have been asked to develop an application using a switch statement that allows theatre employee to enter a day of the week and then display the cost of a theatre ticket for the day.

Incorporate switch and if..else statement to apply the following conditions in the application.

|  |  |  |
| --- | --- | --- |
| **Day** | **Age** | **Cost** |
| **Monday - Thursday** | Under 10 | Free |
| 10 – 65 | RM10 |
| Over 65 | Free |
| **Friday - Sunday** | Under 10 | RM10 |
| 10 – 65 | RM20 |
| Over 65 | RM10 |

Flowchart For Task 3 (page 2)

Diagram, schematic

Description automatically generated

Code For Task 3

//self-learned : joptionpane with multi-input, showconfirmdialog(ok\_cancel + yes\_no), array?, convert jtextfield input to string?

**import** javax.swing.JOptionPane;

**import** javax.swing.JTextField;

**import** javax.swing.ImageIcon;

**public** **class** A1\_Task3plus {

**public** **static** **void** main(String[] args) {

**int** cost;

ImageIcon error = **new** ImageIcon("src/angrybird.png"), error2 = **new** ImageIcon("src/error.png"), error3 = **new** ImageIcon("src/error2.png");

ImageIcon stop = **new** ImageIcon("src/wait.png"), aa = **new** ImageIcon("src/he.png"), smug = **new** ImageIcon("src/smug.png");

ImageIcon ticket = **new** ImageIcon("src/ticket.png"), movie = **new** ImageIcon("src/cinema.png");

JTextField day2 = **new** JTextField();

JTextField age2 = **new** JTextField();

//Array

Object[] message = {

"Please enter a day of the week.",

day2,

"Please enter age.",

age2

};

//Enter input

**int** option = JOptionPane.*showConfirmDialog*(**null**, message, "Info", JOptionPane.***OK\_CANCEL\_OPTION***,JOptionPane.***QUESTION\_MESSAGE***, ticket);

**if** (option == JOptionPane.***OK\_OPTION***) {

//try-catch block start

**try** {

**int** age = Integer.*parseInt*(age2.getText());

String day= day2.getText().toString();

//switch start

**switch** (day) {

**case** "Monday", "monday", "Tuesday", "tuesday", "Wednesday", "wednesday", "Thursday", "thursday":

**if** (age >= 0 && age < 10) {

cost = 0;

}

**else** **if** (age >= 10 && age <= 65) {

cost = 10;

}

**else** **if** (age > 65) {

cost = 0;

}

**else** {

cost = 1;

}

**break**;

**case** "Friday", "friday", "Saturday", "saturday", "Sunday", "sunday":

**if** (age >= 0 && age < 10) {

cost = 10;

}

**else** **if** (age >= 10 && age <= 65) {

cost = 20;

}

**else** **if** (age > 65) {

cost = 10;

}

**else** {

cost = 1;

}

**break**;

**default**:

JOptionPane.*showMessageDialog*(**null**,"That is not a day or don't blank it.", "Guess what?", JOptionPane.***ERROR\_MESSAGE***, error);

**if** (age >= 0) {

cost = 2;

}

**else** {

cost = 1;

}

}

//switch end

// conditions for different output

**if** (cost == 2); //do nothing

**else** **if** (cost != 1)

JOptionPane.*showMessageDialog*(**null**,"Day you entered >> " + day + "\nTheatre ticket price >> RM" + cost, "Result",JOptionPane.***INFORMATION\_MESSAGE***, movie);

**else**

JOptionPane.*showMessageDialog*(**null**,"Age is not valid.", "How special, negative age :)", JOptionPane.***ERROR\_MESSAGE***, error2);

}**catch**(NumberFormatException e) {

JOptionPane.*showMessageDialog*(**null**, "Please input a number.\nSpacing is not allowed.", "ERROR",JOptionPane.***ERROR\_MESSAGE***,error3);

//informing user about error

}

//try-catch block end

}**else** {

**int** option2 = JOptionPane.*showConfirmDialog*(**null**, "Do you really really really want to leave?", "Hold On", JOptionPane.***YES\_NO\_OPTION***,JOptionPane.***QUESTION\_MESSAGE***, stop);

**if** (option2 == JOptionPane.***YES\_OPTION***) {

JOptionPane.*showMessageDialog*(**null**,"Sayonara.", "ಠ╭╮ಠ",JOptionPane.***INFORMATION\_MESSAGE***, aa);

}

**else** {

JOptionPane.*showMessageDialog*(**null**,"Just kidding, bye.", "(￣y▽￣)╭ Ohohoho.....",JOptionPane.***INFORMATION\_MESSAGE***, smug);

}

}

}

}

**Outputs For Task 3**

1. **Normal:**

Input type 1

**Graphical user interface, application

Description automatically generatedGraphical user interface, application

Description automatically generated**

**Graphical user interface, application

Description automatically generatedGraphical user interface, application

Description automatically generated**

Input type 2

Program ends

**Graphical user interface, application

Description automatically generated**

Program ends

Input type 3

**Graphical user interface, application

Description automatically generatedGraphical user interface, application

Description automatically generated**

Program ends

1. **Error 1 ( User enter negative age)**

**Graphical user interface, application

Description automatically generatedGraphical user interface, application

Description automatically generated**

**Graphical user interface, application

Description automatically generated**

Program ends

1. **Error 2 ( User blank or did not enter a valid day)**

**Graphical user interface, application

Description automatically generatedGraphical user interface, application

Description automatically generated**

**Graphical user interface, application

Description automatically generatedGraphical user interface, application

Description automatically generated**

Program ends

1. **Error 3 ( User space or enters alphabet at age)**

**Graphical user interface, text, application

Description automatically generatedGraphical user interface, application

Description automatically generated**

**Graphical user interface, application

Description automatically generated**

**Graphical user interface, application

Description automatically generated**

Program ends

1. **User Click Cancel or Cross Button**

**Graphical user interface, application

Description automatically generated**Graphical user interface, application

Description automatically generated

Graphical user interface, application

Description automatically generatedGraphical user interface, application

Description automatically generated

**No**

**Yes**

Program ends

Program ends