JAVA ASSIGNMENT

Project title: **Elevator**

Aim: To operate the elevator without any interruptions.

Language: JAVA.

Software: Eclipse.

Synopsis:

In this elevator there a three major operations are performed.

They are:

- Floor selection operation.
- Fire Alarm operation.
- Quit operation.

In this floor selection operation we can selection how many times we go up and down it will give you the chance. Next fire alarm operation it will give you the danger message and it will give an option to quit from the elevator. Final one is quit operation it normally if you don't want to goes any floor this will help.

Maven project: ElevatorAssignmentProject.

Package: com.elevatorassignmentproject.

Classes:

- ElevatorAssignmentProject
- ElevatorSelectionProcess

ELEVATOR ASSIGNMENT PROJECT CODE:

```
/**
* ********************JAVA ASSIGNMENT********************
*          CSR CAPGEMINI TRAINING PROJECT
*          EDUBRIDGE INDIA PRIVATE LIMITED
*          PROJECT TITLE: AIRLINE RESERVATION SYSTEM
```

```
*        UNDER THE GUIDENCE OF TRAINER MRS.INDRAKA MALLI

*                                    @DONE BY LOKESHWARI S

*In this Elevator selection process class is having three major
functions

*-->First process is selecting FLOORS OPTIONS

*-->Second process is selecting FIRE ALARM OPTION

* -->Third process is Selecting QUIT OPTION

@DONE by LOKESHWARI S

*

*//**

*In this elevator there a three major operations are performed.

They are:

•      Floor selection operation.

•      Fire Alarm operation.

•      Quit operation.

→In this floor selection operation we can selection how many times

we go up and down it will give you the chance.

→Next fire alarm operation

it will give you the danger message and it will give an option to quit
from the elevator.

→Final one is quit operation it normally if you don't want to goes any
floor this will hel*

*/

package com.elevatorassignementproject;

import java.util.Scanner;

public class ElevatorAssignmentProject {


static Scanner sc=new Scanner(System.in);

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

```java
ElevatorSelectionProcess eob=new ElevatorSelectionProcess();

while(true)

{

System.out.println("*******Don't worry I will Lift You*******");

System.out.println("Enter your option");

System.out.println("s for selecting the FLOOR option");

System.out.println("f for selecting the FIRE ALARM  option");

System.out.println("q for selecting the QUIT option");

char n=sc.next().charAt(0);

if(n=='s' || n=='f' || n=='q')

{

while(true)

{switch(n)

{

case 's':System.out.println("your selecting the floor selection
process");

eob.selectFloor();

break;

case 'f':System.out.println("your selecting the fire alarm process");

eob.fireAlarm();

break;

case 'q':System.out.println("your selecting the quit process");

eob.elevatorQuit();

break;

default: System.out.println("Invalid choice");

}break;}

if(n=='s')

{System.out.println("do you want to continue yes/no");
```

```java
String in=sc.next();

if(in.equalsIgnoreCase("no"))

{

break;

}

}

else {

break;

}}

else

{

System.out.println("invalid option");}

}

}

}
```

ELEVATOR SELECTION PROCESS CODE:

```java
package com.elevatorassignementproject;

import java.util.Scanner;

/** In this main elevator assignment project class having the selection process

* using witch cases.*/

public class ElevatorSelectionProcess {

static Scanner sc=new Scanner(System.in);

//FLOOR SELECTION FUNCTION

/**

* Here the floor numbers are starting from 0 to 10...
```

```java
 * Initially it shows the current floor number It helps to
 *  select the what ever the floor number that person wants...
 *repeated selecting option is also given...
 **/
public void selectFloor()
{
int liftno;
int initialfloor=0;
while(true)
{while(true)
{
System.out.println("now you are in floor number: "+initialfloor);
System.out.println("Enter the number where i want to lift from 1 to
10");
liftno=sc.nextInt();
if(liftno>=1  && liftno<=10)
{
//loop for selection of floor it goes until the reach required floor
if(liftno>initialfloor)
{
System.out.print("going up");
for(int  i=1;i<=liftno;i++)
{
System.out.print(i+"...");
if(i==liftno)
{
System.out.println(i+"Ding!");
System.out.println("lift is stopped...");
```

```java
}}}
else
{
System.out.println("going down");
for(int   i=1;i<=liftno;i++)
{
System.out.print(i+"...");
if(i==liftno)
{
System.out.println(i+"Ding!");
System.out.println("lift is stopped...");
}}}
initialfloor=liftno;
System.out.println("do you want to continue the floor selection
process yes/no");
String in=sc.next();
if(in.equalsIgnoreCase("no"))
{break;
}
}//if the selected floor number is not valid means it gives the change
to re enter
else
{
System.out.println("enter the valid number");
break;
}
}break;
}}
//FIRE ALARM FUNCTION
```

```java
/**
* This fire alarm gives the alert message and
* it immediately tell like to press exit
**/
void fireAlarm()
{
System.out.println("Danger! You must exit the building now!");
System.out.println("e for Exit");
char fin=sc.next().charAt(0);
switch(fin)
{
case 'e':System.out.println("now you are safe");
System.out.println("lift is stopped");
System.out.println("you are in floor no 0");
break;
default: System.out.println("invalid option");
}}
//QUIT FUNCTION
/**
* It shows the quieted message...
*/
public void elevatorQuit()
{
System.out.println("now you are quieted...");
}}
```

JAVA OUTPUT:

SELECTING THE FIRE ALARM :

```
*******Don't worry I will Lift You*******
Enter your option
s for selecting the FLOOR option
f for selecting the FIRE ALARM  option
q for selecting the QUIT option
x
invalid option
*******Don't worry I will Lift You*******
Enter your option
s for selecting the FLOOR option
f for selecting the FIRE ALARM  option
q for selecting the QUIT option
f
your selecting the fire alarm process
Danger! You must exit the building now!
e for Exit
e
now you are safe
lift is stopped
you are in floor no 0
```

SELECTING THE LIFT INFINITE TIME:

```
*******Don't worry I will Lift You*******
Enter your option
s for selecting the FLOOR option
f for selecting the FIRE ALARM  option
q for selecting the QUIT option
s
your selecting the floor selection process
now you are in floor number: 0
Enter the number where i want to lift from 1 to 10
8
going up1...2...3...4...5...6...7...8...8Ding!
lift is stopped...
do you want to continue the floor selection process yes/no
yes
now you are in floor number: 8
Enter the number where i want to lift from 1 to 10
5
going down
1...2...3...4...5...5Ding!
lift is stopped...
do you want to continue the floor selection process yes/no
no
do you want to continue yes/no
no
```

SELECTING THE QUIT OPTION:

```
*******Don't worry I will Lift You*******
Enter your option
s for selecting the FLOOR option
f for selecting the FIRE ALARM  option
q for selecting the QUIT option
q
your selecting the quit process
now you are quieted...
```