## Assignment - IV

Tette: Transform the system from command line system to GUI based application

Problem Statement : GUI programming

Objective: Ordenstand the implementation of swing class.

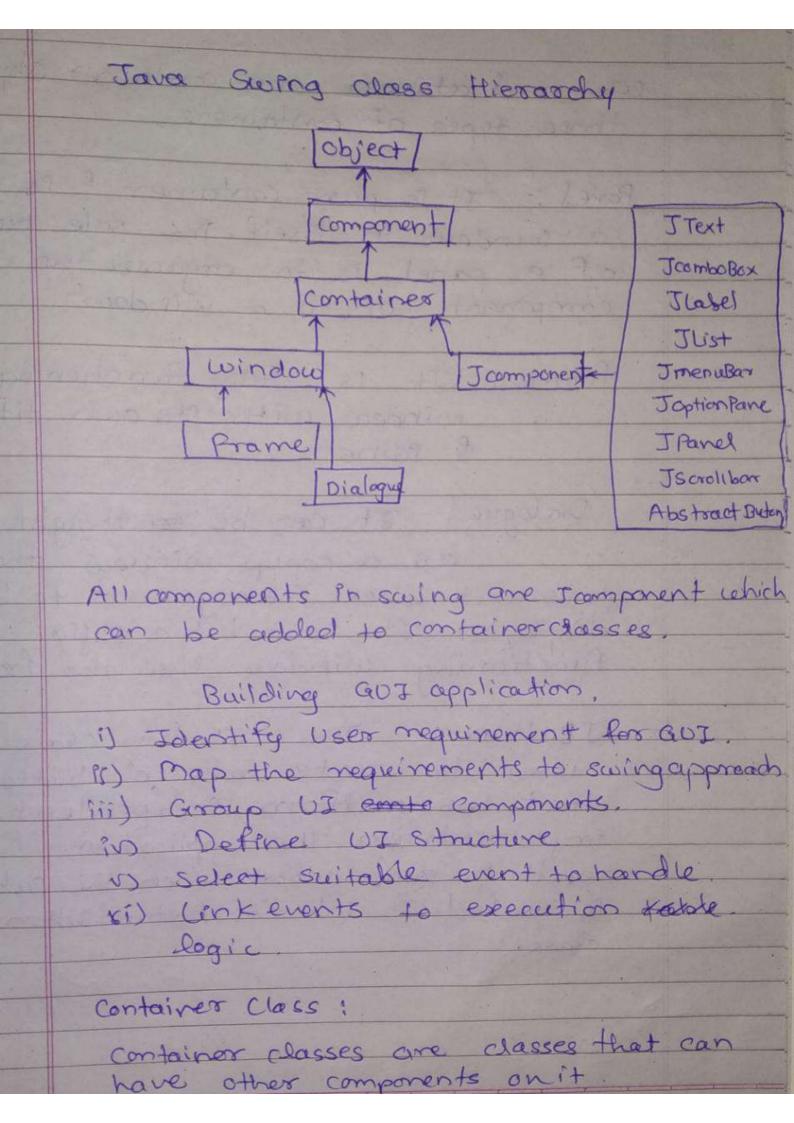
Outcome: After completion of this assignment students can evaluate & analyze the problem of understand the GUI concepts in sava.

S/w & H/w requirement 1-

64 bit Redora OS, Java developement kit, Eclipse IDE,

Concept Related Theory:

Java Swirg provides platform independent & lightweight component The Java-Swing package provides classes for Java Swing API such as I Button, J Textfield, I Text Amea, Ilabel, J Panel / Toadio Button, etc.



we need atleast one container object three types of containers.

Panel: - It is pure container of is not a window in itself. The sole purpos of a panel is to organize the component on to a window.

Prame: Jt Ps fally fanctioning coindow with Pts own title & Pcons

Dialogue: It can be to thought of as a popup window that pops out when message has to be displayed. It is not to a fully functioning window like the frame

JButton: The Joutton Class Ps used to create labeled button that has platform endependent emplementation. The application result in same action when the Button is preshed. It inherits Abstract Button class. Ilabel: The object of Ilabel class is a component for placing text in a contain er. It is used to display a single line of read only text. The Text can be changed by an application but a user cannot edit it directly. It inherits

Jemponents class.

I Text Area :- The object of I Text Area class is a multiline region that displays text. It allows the aditing of multiple line text. It appears to Treat components line text. It anherits I Text components class.

Johnston in or off. clicking an checkon option on or off. clicking an checkthox changes its state.

JRadio Button: It is used to change one options. It should be added in Button Group to select one radio button only.

JomboBox: A component that combines a button or editable field & a dropdown list. The User can select value from the dropdown list.

Event Listners-

when button is clicked, it oreates an action event object & invokes action performed (Action Event) method of Action Listner enterface. Event source heeds & a neference to the object of Event hardler so that It can call pts method.

## Algorithm 1-

public Ask () {

1/ This constructor invoke the

1/ welcome someen & asks for

1/ either legin or signup.

1/ It will have legin & signup.

1/ button which invokes respective

1/ Brames.

public login () {

// This constructor invoke the login
form frame which take input
enedentials of

// If onedentials match as per
database their privates new
main someen after submit

public SignUp () { This constructor privakes window to take

Shout from for signup of submit

button

This will add new employee data

to database

public Main () {

This one privakes resentance

of displays features for particular,

user

I Based on event listness next frament

s generated.

Admin () { public Admin () { 11 It privates admin frame &. shows features for admin user. 11 According to eventlistness next frames are generated. All projects assigned to user of

the details public main Py () & Hearding event listners next frame es gremerated.

public Pricreate () { // Invokes frame having input ferm to take project détails of assigned to a employee.

He changes are made in database Accordingly. public pri Delete () ?
// Invokes frame Por Admin to defete a existing project. 11 Input es tecken & Changes to database are done accordingly. public deadline Opdate () {

11 Another Frame For admin is provoked to charge the deadlines for project. 11 According to Propert changes made to database public Emp Deletel) { 1 Invokes a frame for admin to remove an employee from postal Il Input is taken & changes made to database accordingly

Test Case: function Expected Actual result 1) Bigoup User. Message! Success, "signup Name: "Sunveg" Successfeel. Designatin: "soft. Engg." Password is Experience: 2 (years) surveg@123' maill " sunveg@gmail.com" 2) meate Project. Project Name! Message ! 'web App' Web App Success. Project Detail: project Develope an 1 Assigned web app to User Deadline: Suneg!" 12020 1231 Employee:

Conclusion:
Students should implement application more user friendry.