

Faculty of Engineering & Technology Department of CSE

Assignment

Course name: Design Pattern and Java Programming

Course Code: CSE 2103

Submitted By:

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#GU]

=> GUI stands for Graphical User Interface.

GILI is a user friendly interface used to communicate with the help of electronic devices. It displays all the contents whether a text file or an object or a pictures or videos and all the things that a user and to visualise. It interacts well and can be used everywhere whether a mobile phone tablet, laptops, personal computer and all the other electronic devices, It can be used best in the gaming side where the resolution is being comidered.

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Swing

Swing is the collection of were interface components for Java programs. It is part of java classes that are responsed to as JFS. In Simple words, swing is the graphical user interface toolkit that is used for developing windows based java applications or programs. It is the successor of AWT, which is known as Abstract window toolkit APJ for java and AWT components are mainly heavyweight.

Features of Swing

=) The features of swing are as follows:

(i) Plat form Independent:

It is platform independent. The swing components that are use to build the program are not platform specific. It can be used on any platform.

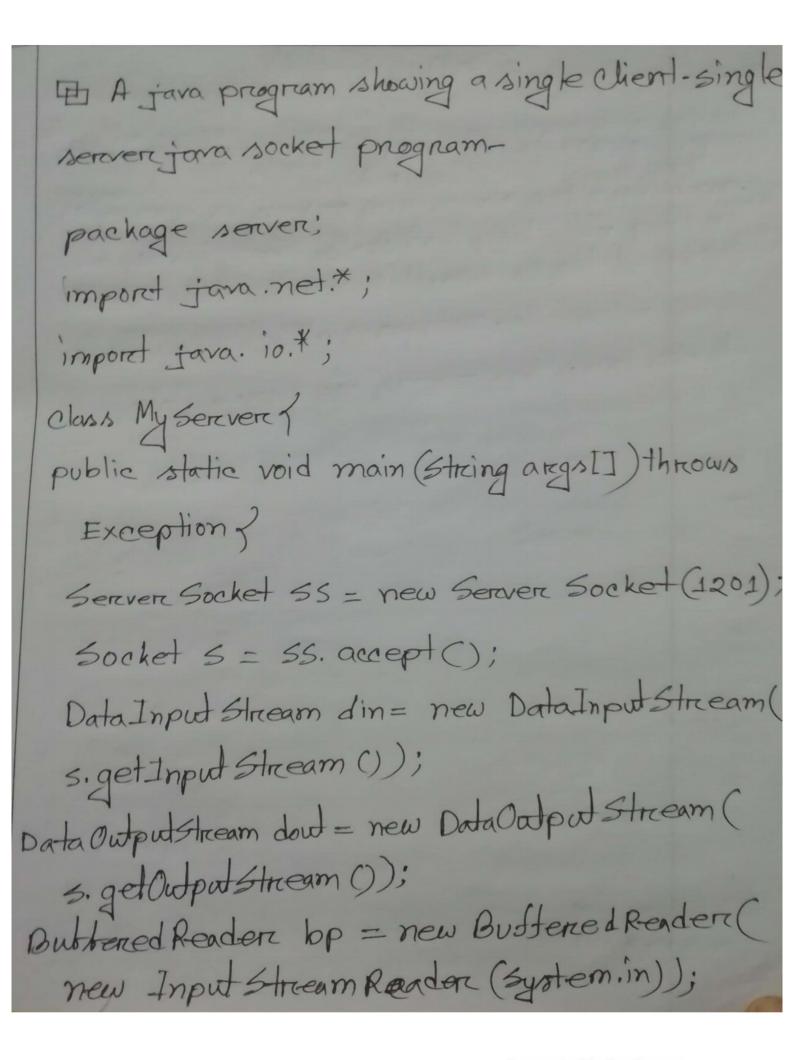
- (i) Lightweight: Swing components are lightweight which helps in creating the UI Lighters
- (iii) Plugging: It has a powerful component that can be extended to provide support for the user interface that helps in a good look and feel to interface that helps in a good look and feel to the application. Its components are imported through a pockage called java. swing.
 - (iv) Manageable: It is easy to mange and configure. Its mechanism and composition pattern allows changing the settings at runtime as well.
- We can do the changer in one components without impacting or touching other components. His known as loosely coupled architecture as well.

	Date:	
	Amsto the Q. no-2	
	# Threading: Threads allows a program-to oper	cale
	morce efficiently by doing multiple things at the mo	me
	time: Threads can be used to perstorm complice	KIEC
	tasks in the background without intercruping	
	the main program.	
	Life cycle of a thread in java-	
	INO complete, resume ()	Ò
	Start() Reedy-to-Runk notify(), notifyall(); intercupi()	npt (
	Startly	Hen
	Schedul!	ed in
	2 2	laps
	Running Steeping	ime elapsec
	5 2	干
1	Blocked	
	D-ead	
	Non-runnable states	

Scanned with CamScanner
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Am to the quenno-3 His Socket progreaming is a way of connecting two nodes on a network to communicate with each other. One socket (node) listens on a parcticular porct at an IP, while others socket reaches out to the other in order to form a connection. >> State diagram for server and client model client Server Socke Socker setsockopt Accept Send/Recieve Send/ Recieve

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Date: .. String Str = "", stre = ""; While (1 stre. equals ("stop")) } stre = din. read UTF (); System. out. preinth ("client says: "+ stre); stre2 - bre readline (); dowd. write UTF (Str2); dout. Flush ();

package client; import java. net. *; import javaio. *; class Myllient public static void main (string args []) throws Exception Socket 5 = mew Socket ("local host", 1201); Data Input Stream din = new Data Input Stream (s.get Input Stream ()); Data Output Stream dowt = new Data Output Stream (s.getOwportStream ()); Bufferred Reader br = new BubberredReader (new Input Streeam Render (System.in)); Straing Str = " ", str ? = 4 ";

Date:			

while (! str. equals ("stop"))?

str = br. readLine ();

dout. write UTF (str.);

dout. flush ();

str 2 = din. read UTF ();

System.out. println ("Server says:" - str 2);

}