

INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous)

Dundigal, Hyderabad -500 043

COMPUTER SCIENCE AND ENGINEERING

ASSIGNMENT

Course Title	JAVA PROGRAMMING	r			
Course Code	A40503				
Regulation	R15-JNTUH				
Course Structure	Lectures	Tutorials	Practicals	Credits	
	4	-	-	4	
Course Coordinator	Mr. P Ravinder Assistant Pr	Mr. P Ravinder Assistant Professor			
Team of Instructors	Mr. N.V Krishna Rao Asso	Mr. N.V Krishna Rao Associate Professor, Ms. K. Radhika Assistant Professor			

OBJECTIVES

To meet the challenge of ensuring excellence in engineering education, the issue of quality needs to be addressed, debated and taken forward in a systematic manner. Accreditation is the principal means of quality assurance in higher education. The major emphasis of accreditation process is to measure the outcomes of the program that is being accredited.

In line with this, Faculty of Institute of Aeronautical Engineering, Hyderabad has taken a lead in incorporating philosophy of outcome based education in the process of problem solving and career development. So, all students of the institute should understand the depth and approach of course to be taught through this question bank, which will enhance learner"s learning process.

Blooms	Programme			
Taxonomy Level	Outcome			
UNIT – I				
Understand	1			
Remembering	1			
Understanding	1			
Understanding	1			
Remembering	1			
Understanding	1			
Remembering	1			
Understanding	1			
Understanding	1			
Understand	1			
UNIT – II				
Understand	2			
Understand	2			
Remember	2			
Remember	2			
Remember	2			
	Remember			

S. No.	Question	Blooms Taxonomy Level	Programme Outcome
6	Explain different Types of Packages. Explain in detail about Creating, importing packages.	Remember	2
7	Describe method overriding? Explain with an example?	Understand	2
8	Describe Abstract classes? Explain with an example? Explain final classes , methods and interfaces with an example	Understand	2
9	Describe interface? Explain with an example? Explain working procedure of CLASSPATH	Understand	4
10	Describe inner classes? Explain with an example? Explain Member access rules with an example.	Understand	2
	UNIT – III		
1	Explain creation of thread using runnable interface with an example	Understand	б
2	Write a java program that implements a multi-thread application that has three threads. First thread generates random integer every 1 second and if the value is even, second thread computes the square of the number and prints. If the value is odd, the third thread will print the value of cube of the number.	Understand	6
3	Write a Java program that creates three threads. First thread displays "Good Morning" every one second, the second thread displays "Hello" every two seconds and the third thread displays "Welcome" every three seconds.	Understand	6
4	Explain about thread interrupts with an example.	Understand	6
5	Explain about inter –thread Communication with an example.	Understand	6
6	Explain creation of thread using extending thread class with an example	Understand	
7	Explain with an example how java performs thread synchronization?	Understand	6
8	Explain producer consumer problem with an example	Knowledge	6
9	Explain about thread interrupts with an example.	Knowledge	6
10	Explain the life cycle of a thread and multithreading.	Knowledge	6
	UNIT – I V		
1	Explain the Java Collection frame work with an hierarchy	Understand	7
2	Explain ArrayList and Vector with examples.	Understand	7
3	Explain hash table and stack with examples.	Understand	7
4	Explain enumeration and iterator with an example.	Understand	7
5	Explain StringTokenizer with an example.	Understand	7
6	Explain Random and scanner with examples.	Understand	7
7	Explain Calander class and properties with an example.	Analysis	7
8	Write a Java program that reads a file name from the user, then displays information about whether the file exists, whether the file is readable, whether the file is writable, the type of file and the length of the file in bytes	Analysis	7
9	Explain binary input/output file operations and random access file operations and Write a Java program to implement character streams (reader classes).	Analysis	7
10	Explain different types of JDBC drivers with diagrams and Write a Java Program that connects to a database using JDBC and does add, delete, modify and retrieve operations.	Knowledge	7
	UNIT – V		
1	Explain in detail about hierarchy for swing and awt?	Knowledge	7
2	Write a program for passing parameters to applet?	Knowledge	7
3	Develop an applet that receives an integer in one text field and computes its factorial value and returns it in another text field, when the button named "compute" is clicked using swing components?	Create	7
4	Develop an applet that receives an integer in one text field and computes its	Create	7

S. No.	Question	Blooms Taxonomy Level	Programme Outcome
	factorial value and returns it in another text field, when the button named "compute" is clicked using awt components?		
5	Define JFrame, JApplet, JDialog and Jpanel, Jbutton, JLabel, JTextField and JtextArea? Write a java program that simulates a traffic light. The program lets the user select one of three lights: red, yellow, or green with radio buttons. On selecting a button an appropriate message with "STOP" or "READY" or "GO" should appear above the buttons in selected color. Initially, there is no message shown	Create	7
6	Describe Layout manager types – border, grid, flow? Write a Java program that works as a simple calculator. Use a grid layout to arrange buttons for the digits and for the $+,-,*$, % operations. Add a text field to display the result. Handle any possible exception like divided by zero	Create	С
7	Describe Delegation event model? Describe is the relationship between Event sources and Listeners?	Understand	с
8	Describe events for handling a button click and mouse events with an examples	Create	c ,d
9	Explain applet life cycle? Difference between applet and application?	Understand	С
10	Explain applet security issues?	Understand	с