	ne-Ameya Barapatre 1 No-01
9 5	SARASWATI Education Society's PAGE NO.:  SARASWATI College of Engineering DATE:
	Assignment 2 Junior
(1)	Explain class, object, constructor and method overloading?
	Chas: A class is a blueprint or template that  clefines the properties (fields) and hehaviours  of objects. In Java, classes are used to create  objects and organize code in a stoucture way.
	Object: An object is an instance of a class it is created from a class and can have its own values for the properties defined in the class can interact with methods:
	onstauctor: A constauctor is a special method used to initialize objects It is called when an object is created and can set initial values for the object constructor can have same name as the class.
m	lethod Overbading: Is a feature in java that allows  multiple methods in the same class to have  the same name but with different parameter  lists. It provides flexibility in defining methods  that perform similar tasks.

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	The state of the s
02	Explain array with suitable example?
	I P
-41	An array in java is a data stautures, that allows
	you to stone multiple values of the same data
Dept.	type in a single container. Fach element in the
-	array is identified by an index, starting
- 30	from 0 for the first elementary element, for the
	second and so on
	Fg > Public class Array Example &
	Public static void main (string [] args) {
	int [] numbers = \$ 5,10, 15, 20, 253 ji
	loc (int i= n : 8 c n : 1
	for (int i= 0; i < numbers length; i++) d  Sum += numbers [i];
46	system. out pointly ("Sum of array elements:":
- 11	TOTALL SOLUTION STORES SELVENS : T:
93]	Emplain why multiple inheritance is not expected in Java?
	and the same of th
	Matiplicity inheritance refers to the ability of a
	class in inherit from more than one superclasse In
-	jawa, inheritance of classes is not supported. This
-#	decision was made to avoid complexity and
$\parallel$	potential issues like the "Diamond problem". Java
-	allows is a well-known issue in language that
-#	support multiple inheritance it occurs when a
$^{\parallel}$	class inherits from two classes that both
$\bot$	inherit from the same parent chass.
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Ord Explain Exception Handling with svitable example.?
In java exception hardling is a powerful mechanism.  to handle runtime extors ensuring the normal flow of the program.
An exception is an event that accurs during the execution of a program disrupting the normal flow of instruction
using try, catch, finally, throw and throws keywoo
Frample -> Public class
Public static void main (string I Jungs) &
System Out Println (number [3]);  Youtch
System out println ("Array index is out"); 3 finally
System. out · print In ("Finally blocked executed"):
3

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\$	Explain multithreading in Jana?	
	Mullithreading in Java is the process of everuting two or more threads concurrently to acheive parallelium.	
	Fach thread runs a part of the program independently enabling efficient CPU utilization and faster execution of tasks.	
	Java provides built-in support for multithreading using the 1 Thread' class applications that need to handle.  many tours at once I like web servers.	
12	Throad: Is a lithtweight provess and is a part of a program that rune independently of other parts:	
2)	State of Thread: When a thread object is created, not started when start method is raded, the thread is ready to run but waiting for CPU time.	
3)	Thread Class: Provides methods like start (), sleep()  yleld (), join () and intercept () to  control the execution threads.	