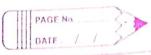
Sub! - Java programming contraction of the contraction o Explain method overloading with suitable example. 1 Je in this is rollintz . 1. Method overloading is a feature that allows 7 a class to have I move than one method with the same name if their argument list's are different. It is an important feature in javo these are several cases where we need more than cone methods with same name for example · if we are building an application for calculator, we need different vorients of 'add method based on the user inputs such ich as add (int, int), add (float; float) etc. 3. It is similar to constructor overloading in Tova that allows a class to have more +1 an 2070 whome constructor with different argument list's . 111 class addition on the sill 176 tout in scantiaddi Cinta inhb)om sitale a 6 13H . lineny lettro return atby rodinging 11:00 double add (double so dintab) they say corp admon sitet? setusin Catto) " place branch si A. . . Anger Cline - C. D. int add (int a, int b, into) winter. return athte

Name : Rajesh Suthax

Roll No! - 50



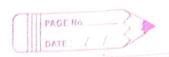
public static void main (String args[]) addition ob = new addition (); system tout println (ob add (20,30)); System wout paint In Cob. add (20.5; 301); System out println (ob add (20, 30 40)); was Jack to the transfer of the 1. 2000 100 write a short note on Statio: members receiped to product as an it. 1) Static members are data members (variables) or methods, that belong to a static or a non-static class itself, rather than to in objects of the class would 2) Static members always remain the same, regardless of where & how they are used. Static members are associated with the 3] class, it is not necessary to coeste instance of that class U to invoke them. A static member can be declared Using access control modifiers. A static members has access to all static members of it's containing class, including private members ... static member classes + interfaces can 6 ne defined only within top-level classes & other stablic member classes interfaces in the profit too to · 1 + 0 161



		DATE. / /						
of the same	Committee to the second	class student						
	1							
		int vollno;						
		String name; .						
		1 Static String college = "CUS".						
	۸ (	student (int nostring n) [ " "						
	1 '0.	10 8011no= n;						
		name = n; con in the same						
	•	1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1						
	No 1	void display ()						
		E i de la la constantina que						
		System.out.printlnCrollnot" "tnamet" "t college);						
		J'						
		public static void main (string args[])						
		{						
		Student of the Student (III, "Rosan")						
·		Student 32=new Student (222 "Aryan");						
		51. display();						
		52. display ();						
		to the second of the second of the second of						
,	3 of C (5)	·						
	٦	to the contribute of the contr						
E	3	write a short note on Finalize method.						
	->	I Finalize method in Java is an object class						
		method that is used to perform cleanup						
	No 3	activity before destroying any object.						
		2] It is called by garbage collector						
,	C.40.1	before destroying the object from						
		weword.						
		3 Finalize () method is called by default						
		For every object he fore it's déletion.						
		THE STATE OF THE S						

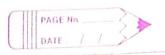


ny kaominina	4) The time at which the garbage collector				
	cans malizers is dependent on the JUN's				
	implementation & the system's conditions,				
Contracted Ballings And Contract of The State of	which are out of our control.				
	5) Finalize () method is a protected & non-				
. April 10 miles	Static method of jovalang object class,				
	mis method of jovalang object class,				
	you coeate in java.				
	It is the method that is used to				
	perform some final operations or clean				
	ap operations on on object before it is				
CL " 2"	demoved from the memory.				
11					
7	public class main				
	3				
	in trinstance Variable 1 = 10; totale				
	final int instance Variable 2 = 120;				
	Void show Values ()				
	£				
	system-out-pointln ("instance Variable 1: "+				
	instance Variable 1);				
	System.out. println ("instance Variable 2:"+				
	instance Variable 1)				
	instance Variable 1 = 12;				
	instance Vasiable 2 = 30;				
11 10	System. out println ("instance Variable 1"+				
7	instance Variable 1)				
	System. out pointin ("instance Variable 2:"+				
7	instance vasiable 1).				
	9				
	public static void main (String aras [7)				
	public static void main (String args [])				

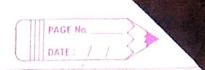


	Main main= new Main ();				
	main show Values ();				
9	write a short note on Final class, Final				
	vasiables & methods.				
	finding of the first terms.				
->	I Final > vatiables! -				
	I The final Keywood in java is used to				
	restrict the user. The j'ava final Keyword				
	can be used in many context, Final can be				
	· Vosiable · method · class.				
	of the final Keywood can be applied with the				
	variables, a final voriable that have no value				
	it is called blank final variable or uninitialized				
	Final variable.				
	3] It can be intialized in the constauctor only				
	4) The blank final variable can be static also				
	which will be intialized in the static block				
	only.				
	V				
	cannot change the value of final variable				
	(It will be constant)				
	class Bike9				
	£ 1.74 1.74 1.74 1.74				
	Final int speedlimit=901				
	void bun ()				
	Speedlimit = 400;				

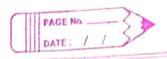
```
public static void main (String args [])
    Bikeg obj = new Bikeg();
     c) nusido
 of Fire method!
      If you make any method as final you
     cannot overside Vit.
   final void sun ()
     £ 30 0 0 00 00 10.
system out pointln ("running");
    class Honda extends Bilterna
     E: 1. 1. 1. 1. ..
     void bun ()
      System out pointln C"ounning Safely with
             100 KmpK");
     public static void main (String args [])
      Handa honda = new Honda ()
      honda. sun ().
```



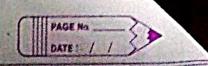
	Third/mathod: -  The year matter and method as times, day  Country to be reasonable to the second to						
	3 Final class: -						
	If you make any class as final you						
	cannot extend it.						
1							
13	final class Bike "						
1 1	[ · · {: } · · · · · · · · · · · · · · · · · ·						
2 1	class Honda1 extends Bike						
1	void ounc)						
	1: 10 { 2 m / m / m / m / m / m / m / m / m / m						
	system-out-println ("running safely with 100 kmph");						
	3						
	public static void main (String args[])						
	Honda 1 honda = new Honda 1();						
	honda dune of						
	)						
	)						
5]	white a short note on Garbage collection in						
	Java.						
	Thathage collection is a process which is						
<i>→</i>							
	performed for memory management.  1 It is used for rectaining the runtime						
<u> </u>	unused objects						
	'I I be be le that						
	3) Java programs compile to pyterode mar						



	can be sun on a Java vistual Machine, 08
	JVH For short.
4	I when Java programs our on the JVM,
	objects are created on the heape, which is
	a portion of memory dedicated to the
	brodrom.
	3 Eventually, some objects will no longer
	be needed.
	1 The garbage collector finds these unused
	objects & delets them to free up memory.
	+ Java garbage collection is an automatic
	process, the programmer does not need to
	explicity mark objects to be deleted.
	1 The Ugasbage collection implementation
	lives in the JVM (Java vistual Machine).
1;	to be a second or a second of the second
	Class stud
	£
	stud()
	3
	System.out. println ("Hello student ");
	\frac{1}{\gamma}
	public class (C)
	public Static void Greet ()
	posite state vola viseer()
	Stud ohis new studies
	Stud obj= new stud ()
, ·	public static void main (Stoing args [])
	1 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
	int no_of_students = 5;



	for (int 1:0; i < no_of_students; i++)					
	Greet ();					
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					
	7					
	· · · · · · · · · · · · · · · · · · ·					
	Tano					
[]	what are various types of constructors in JAVA.					
. ,						
->	] Java constructors or constructors in JAVA is a					
,	terminology is a been used to constauct something					
	in our programs.					
(	2) A constauctor in JAVA is a special method that					
	is used to initialize objects.					
	(-1)					
· (	1 Defaut constructor! -					
	TIF We do note create any constructor					
	the TAVA compiler automatically coeate a					
	no-org constructor during execution of the					
	beodeau.					
	3 This constauctor is called default					
	constauctor					
	110.1					
	class Main					
	£ .					
	int a;					
	boolean' by					
	public static void main (String args [])					
	Main obj=new Main();					
	system out pointin ("Default Value:");					
	system out pointh ("a = "+ obj. a);					
200	System day portific a 2 3 Signay					



Sy	stem	·out	printl	nc"b	= "+0	pj·63
U	4					U C

1) Parameterized constructor!

A Jova constructor can also occept one or more parameters. such constructors are known as parameterized constructors constructor with parameters).

close Main

string Languages; Main (string lang)

languages = lang

System. out. pointln (languages + "programming language");

and the second

public static void main (String args [])

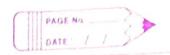
Main obj1 = new Main ("Javo"); Main obj3= new Main ("Python");
Main obj3= new Main ("b");

what is class & what is difference between JAVA Clase & CHICLASS 11.

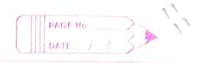
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the year of the order of the same



		A TO DO THE REAL PROPERTY OF THE PROPERTY OF T				
	Parameter	C++	Jova			
	Input	1/0 statements use	1/o statements use			
	mechanism	in & cout, e.g., in>>	(system:in); output			
	7 1	x; cout << y;				
			system out print In (2)			
	-	1				
	compiles &	ctt only support	Java supports both			
	Interpreter	compiler	compiler &			
			intepreter			
	1 1 1 1	real of the second second				
	Concept	waite once compile	write once oun			
		anywhere	onywhete everywhere			
		7	0			
	Memory	Accessible to	System			
	management	bsodsammes	controlled			
1	J	, <b>,</b> ,	( )			
	Bes -	CH supports object-	Java support			
	Features	oriented features	automatic garbage			
		brocednson brodrom-	collection. It			
		ming features	does not support			
		J	destructors.			
	bsod sammes	system	Runtime eddoor			
	responsibility	Responsibility	deotection			
	O	U				
	stauctube	It supports	It doesn not			
		structudes	any suppost for			
			structures.			
ย	what is object write a program to create object.					
and the last	object.	V				
	N. STORESCHELL STAR					



シ	object:
	J A Jova object is a member ( also called
-	an instance) of a Jova class.
1	al Each object has an identity a behavior
1 111	& a state.
	3) The state of an object is stored in
1	fields (voriables), while methods (functions)
	display the object's behavior.
	4) objects are coented at suntime form
	templates, which are also known as
3	classes.
1 11 1	
	public class Main
	3
	int $x=5$ ;
	public static void main (String args []) [
1	Main obj = new Main();
-37- C · V C ·	System. out pointln (myobj. x)
44	
,	
- ,	
2.14	