	Experiment No.
	Experiment No. :
	Name of the Experiment : Method Overloading [Area (alculation]
5.	Java program to lead one of source gertande &
	Circle using method overloading To this excession we
	Java program to find over of square, rectangle & circle using method overloading. In this program we have those methods with same name area (), which means we are area (), which
	overcoading (1400) mother (in house
	three different implementation of area method, we are calculating the area of Square, rectangle & cixcle
	are calculating the area of Square sectando & cixcle
ques.	Java program to find area of Geometric figures using method overloading.
	method overloading.
	Ex: Program to find area of Square, Rectangle and Circle using method overloading.
	Circle using method overloading.
0.	
Prog:	package prg5;
7 0.	
	public class Calculate
	3
	Void Square Area (float x)
	\$
	System.out-println ("Area of the Square: "+x x + "sq.unils");
	2
	Waid Partagals Area (Plant X, float Y)
	Void Rectangle Area (float X, float Y)
	System.out.println ("strea of the Rectangle: "+x * y + "sq. unto")
	2 System.out. partie of the
1	

Experime	nt No. : Date : Page No. :	
Name of t	the Experiment :	
" "	void (ircle Area (double r)	
	double area = 3-14 * 8 * 8;	it
7	double area = 3-14* 8 * 8; System.out.println("Area of the circle: "+ area + "Sq. un	
3		
F	sublic static void main (String [] augs)	
	Calculate (al = new (alculate();	
	Cal. SquareArea (6.1 f);	
	Cal. Rectangle Area (10, 22);	
	(al. Rectangle Area (10, 22); (al. Circle Area (6.1);	
2		
3		
1000		

Output:

Area a 李安安 116. 8394 59 uni 27.21 19 220.0 31

	Name of the Experiment : Static Variable
6.	Write a Java program that counts the number of objects created by using static variable.
	Java Static Variable.
	If you declare any variable as static, it is known as a static variable.
	The static variable can be used to orefer to the common proporty of all objects The Static variable gets memory only once in the class area at the time of class loading
	-> Advantages of Static variable
	It makes your program memory efficient
80g:	don Sudant
	package prg6;
	public class Student &
	int voll no; String name; Static String college: "ITS";

Experiment No. :
Student (int x, String n)
§ J
vollno = x;
name = n;
3
Void display()
2
System.out.println (roll no+" "+ name + " + college);
}
public class Test Static Variable
public static void main (String[] augs)
5
Student SI = new Student (111, "Kixan");
Student S2 = new Student (222, "Axyan");
SI. display ();
S1. display (); S2. display ();
2
2
2

Output:

111 Kiran ITS
222 Aryan ITS

	Experiment No. : 07 Date : Page No. : 12
07.	Write a java program that implements educational hierarchy using inheritance.
	In this type of inheritance, there are more than one derived classes which get created from one single base class.
D809 !	package prof *;
	public class Teacher &
	void teach ()
	System.out.println ("Teaching Subject"); 3
	class Student extends Teacher
	{ Void Listen()
	E System-out-println (" (istening");
	3

Experiment No.
Name of the Experiment :
class Principal extends Teacher
void evaluate ()
System.out.println (" Evaluating");
3
class (heck For Inheritance E
public Static void main (String[] args)
Principal P = new Principal ();
D. evaluate();
P.teach();
3
Note: P. Listen (); "Therows an exercise as inheritance of poincipal is only with Teacher

Output:

Evaluating Subject

	Experiment No. Date: Page No. 11.
	Name of the Experiment : Exception.
08.	Array Index Out of Bounds Exception:
	It is therown to indicate that an averay has
	been accessed with all rulgal index. The index is
	citteer regative @ greater than @ equal to the
	six of the accorage
0.000	package prg8;
The S	
	public class Aroray Indx Out Of Bounds - Demo &
	public Static void main (String[] avegs) {
	try E
	int a[] = new int[5];
ALC:	a[6] = 9;
	7
	Catch (Assay Index Out of Bounds Exception e) {
	System.out.println ("Array Index is out of Bounds"
	
	3
	}

Array Index is out of Bounds