Name: Raghen Mahashwavi ROUND: 53 Partel: A Bestan: Ay	of Submission: 28/03/22
Lorb Assignment - 2 (JP)	
AIM:	
Medite a java program to shordase classe methods, constructore across specificas.	2s, object screation,
Objectives:	
To study classes, object and cocation of object of class.  To study mothods, section value from methods and pass favoramotors to this mothods.	
-> To study constructors and use of con	ratorictoris.
-> To study different access specificous in jo	use and their use
Theodry.	
1) Define what is class and object w	ith example.
It is a template or blue point from created. It is a logical entity.	Common peroposities. Which objects are

The state of the s
Object - is a basic unit of Object oriented Rougeronning and suppresents the soal life onlity.
<u> </u>
Class Student S
int id;
Stering name;
Public Static void main (String [] cogs) of Strokent SI = new. Student (); -> creating and object
Such a set south (CI id):
System-out-pointly (SI-id); System-out-pointly (SI-namo);
(2) Crive the syntax/Joannat to define methods in a class and give examples you postameters passed and set wining a value from methods.
give examples you pasameters passed and voturning a
value soon methods.
clas Demo of
int age;
ent Pouno;
word domp (intx, inty)
2
Public class Main
Public static void main (Storing C7 orgs)

	DATE: / /
S.	
int a = 10;	
int $b = 20$ ;	
Call by value object	t = 200 v) call Burglia ():
System put pointly	("a:"+a+ 186!"+b);
Object-Example	10 6)
lustom out points	("a:"+a+"&b"+b);
2	( a + a + a + b);
2	
(3) White about the	114 D1 00 d0 d0 d0 00 00 00 00 00 00 00 00 00
Marie and The	use of constauctors with examples.
Jana allande absente	to sidealine at the realize in the
and anous objects	to initialize of themselves when they atomatic initializations, is posypound through
age change ins ou	admatic intrafications is to suprised through
use of constanto	<u>~~</u> ,
[a_	
<del>-</del>	
Class Demo &	
Atomy name;	
Demo () L	-1 - 1-11 / 10 0 - 1 - 10 0 1 1 1 1 1 1 1 1 1 1 1 1
	out-pountly (" Constructors called: ");
Mame =	= "Raghan";
3	1 5
Public Static Void	main ( Stering [7 args) of
Demo Object = 1	new man ();
System. Out - point	In ("The name is: " + Object- name);
3'0	
٤	

FAQ PI What is che and object? Ans Class is a genoup of Objects which have common perspecties.

It is a template on bluepoint from which objects are created. It is a logical entity. Object is a basic unit of object oriented programming and supresents real life ortifies. of 2 What are the different ways in which parameters are Ans There are 2 ways by which parameters are passed.

— Call by value

— Call by preference of 3 When is pass by value applied when parameters are passed? Ans This appearant copies value of an arguments into formal possessions of subroutine. So, changes made to parameter cof subroutine have no effect on arguments. dy What is Constructor in Java? And A constructor initializes an object immediately upon creation. It has same name as the Class in which it excides is

C. + 100 10
Syntocitically similar to a mothod.
\$ 5 What is default access specificers and what is its scope?
Ans In Java, the default access specifiers is public. The suspense of default access specifiers is that default members is available only within package.
of default access specified is that default members is
available only within package
96 what are the different access specifiers?
The state of the s
Ans The different occess specifiers are
i) Pulotic
ii) buotected
iii) fouvate.
See

## CODE:

```
J Helloworld.java
                  EmpManagement.j...
                                        Jassig4.java
                                                       💹 assig4b.java
                                                                        J Labassign2.java

    J assig2.java 
    X

   1 ● /*Write a Java Program to take information for students like Name, RollNo, Marks for five subjects.
  5 * Name <u>Raghav Maheshwari</u>
  9 import java.util.*;
 11 class Student1{
         int roll;
         float maths,oop,toc,os,jp,total,perc;
         String name;
         Scanner in = new Scanner(System.in);
 160
              name = "--";
              roll =0;
              maths =0;
             oop = 0;
             toc = 0;
             os = 0;
              jp = 0;
 260
         void getdata(){
              System.out.println("STUDENT MARKSHEET DEMONSTRATION");
              System.out.println("Student name: ");
              name = in.next();
              System.out.println("Roll no:");
              roll = in.nextInt();
              System.out.println("Enter marks as follows");
              System.out.println("Math");
              maths = in.nextFloat();
              System.out.println("00P");
              oop = in.nextFloat();
              System.out.println("TOC");
              toc = in.nextFloat();
              System.out.println("OS");
              os = in.nextFloat();
              System.out.println("JP");
              jp = in.nextFloat();
 500
         void display()
              System.out.println("Student name:"+name);
```

```
System.out.println("Student name:"+name);
           System.out.println("roll no:"+roll);
            System.out.println("Marks are as follows");
            System.out.println("Math:"+maths);
           System.out.println("00P:"+oop);
            System.out.println("TOC:"+toc);
           System.out.println("0S:"+os);
            System.out.println("JP:"+jp);
640
       void cal perc(){
            total = maths +oop + os + toc + jp ;
            perc = (total/500)*100;
           System.out.println("Total percentage:"+perc );
       void grade()
700
            if (perc>=90)
                System.out.println("Grade: A");
            else if(perc >=80 && perc <=89)
               System.out.println("Grade: B");
           else if(perc>=70 && perc <=79)
                System.out.println("Grade: C");
           else if(perc>=60 && perc<=59)
               System.out.println("Grade: D");
83 }
84 public class assig2 {
860
       public static void main(String[] args) {
            System.out.println("Student report demonstration");
            Student1 s1 = new Student1();
            s1.getdata();
            s1.display();
            s1.grade();
            s1.cal_perc();
```

## OUTPUT:

