

VASIREDDY VENKATADRI INSTITUTE OF TECHNOLOGY:: NAMBUR

MID TERM ASSIGNMENT ACADEMIC YEAR: 2020 TO 2021

Hall Ticket No. : | 1 9 B Q 1 A 0 5 D 4

Name of the Student : Medabalimi Vamsi

Course : B.Tech

Branch : CSE_C

Subject : <u>Java Programming</u>

ASSIGNMENT / MARKS DETAILS

To be filled by the Student			To be filled by the Subject Teacher		
Submission Date	Assignment	Signature of the Student	Max Marks	Marks Obtained	Signature of Subject Teacher
21/09/2020	Java Assignment -1	Allami	5		

INSTRUCTIONS TO THE STUDENTS

- 1. The assignment should be submitted to the subject teacher on or before the given schedule.
- 2. Answer should be written on both sides of the paper.

INSTRUCTIONS TO THE SUBJECT TEACHER

- 1. The Subject teacher has to value with red ball point pen only.
- 2. The Subject teacher should award the marks on the left hand side of the margin and at the end of the each answer.
- 3. Do not correct the marks by overwriting or by scratching and writing.
- 4. The Subject teacher has to post marks in the space provided.

1) JAVA buzzwords of Features of java

The java programming language is highlevel language that can be characterised by

all of the following buzz words.

· Simple

· Object Oriented

· Distoibuted

. Interpreted

Robust

· Secure

· Architechural neutral

. Portable

. High performance

. Multi threaded

· Dynamie

Simple:Towa was designed to be easy for professional programmer to learn and use effectively

The simple and easy to learn if you already

. It's simple and easy to learn if you already know the basic concepts of Object Oriented programs

· In java there is small number of clearly defined ways to accomplish a given task 002E.

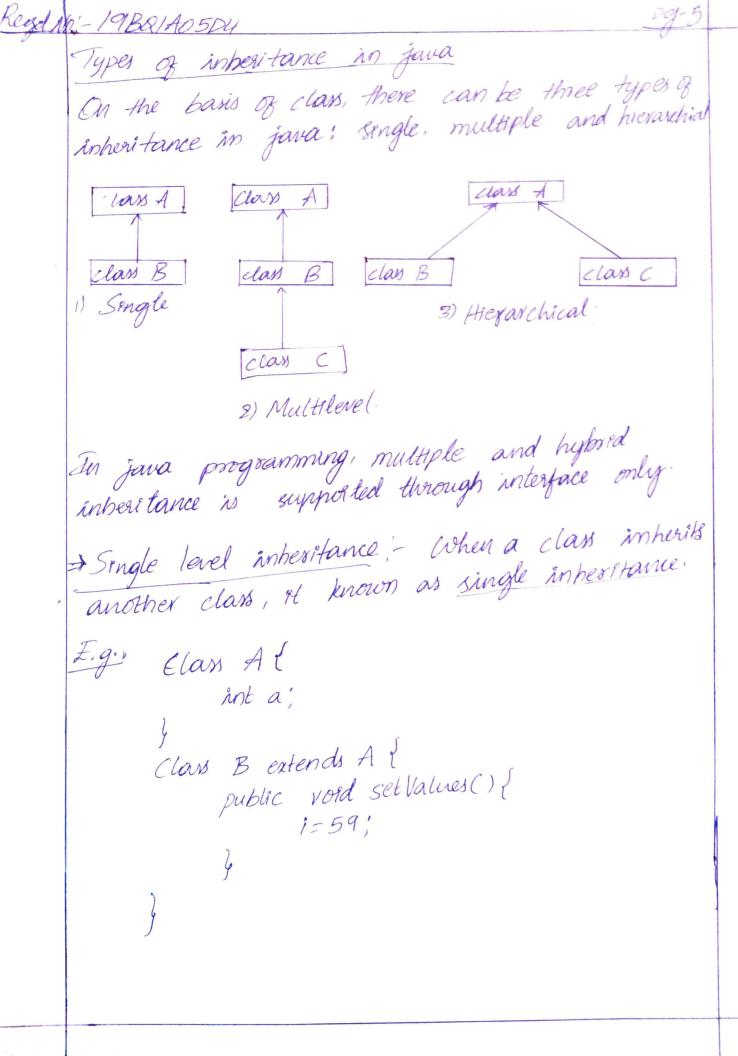
Regano: 19BQ/A05D4 Object Oriented -· Java is tone object oriented language.

Almost "everything is an object" paradigm. All program code and data reside within Spieces and classes . The object model in java is simple and easy to extend. . Distributed: · Java is designed for distributed envisonment of the internet It is used for creating applications on networks. · Java applications can access remote objects on internet as easily as they can do in local system. . Tava enables multiple programmers at multiple gemote locations to collaborate and work together on a single project. Compiled and interpreted: · Usually a computer language is either compiled A interpreted Tava combines both his approach and makes it a two-stage system. . Compiled: Towa enables creation of a cross platform programs by compiling into an interm ediate · Interpreted: Byte code generales machine code that can be directly executed by the machine with JVM

Kegd No: 19BQ140504 Robust: It provides many features that makes the program execute reliably in variety of environments. · Java provides a "frewall" between a networked application and your computer. · When a java compatible web browser is used, down loading can be done safely without fear of viral intection or malicious intent. Anchitecture Neutral + Tava language and java virtual machine helped in achieving the goal of " write once; our anywhere, anytime, faever." · Tava provides a way to download programms dynamycally to all the various types of phatform connected to the internet. High performance: Its performance is high of byte code. Multi-threaded: Multithreaded programs handled multiple tasks simultaneously, which was helpful in creating interactive, network programs.

Dynamic: . Java is capable of linking in new class letswaries. methods and objects

Factors making java famous language: 1988/10504 1) Jana is easy to learn 2) Dava is Rech in API 3) Powerful development took Ey, Eclipse, Netbeams. 4) Java is FREE 5) Great collection of open Source librariles community support. 6) Wonderful 2) Inheritance in JAVA Inherstance is an important pillar of oop (object oriented programming). It is the mechanism in java by which one class is allow to inherit the features (fields and methods) of another class. Super class: The class whose features inherited is known as superclass (or a base class or a parents) Sub class: The clas that inherits the other class is known as subclass (or a desired class, extended class, or child class. The subclass can add of own fields and methods in addition to the superclas fields and methods. Leurabellty: Inhartance supports the concept of " acusability", i.e when we want to create a new class and there as already a class that includes some of the code that we want, we can derive our new class from the existing class By doing this, we are newring the fields and methods



Regd NO: 19BRIA05D4 Multiplevel Inheritance; when there is chain of inheritance, it is known as multilized inheritance As you can see in the given example. £.g. Class Al public void methodex System.out. point in ("X"); Class B extents A? public void method Di System-out. println ("B"); Class C extents B { public void method CIX System. out. printen ("c"); Hierarchial Inheritance: When 2 or more classes inherits a single class, it is known as heerarchical Inheritance. Example: - Mas A? public void methodA() { } System.out.point ("A"); } class B extends Af void methodB() void methodB(){ System out print ("B");}

```
Regol NO 19BQ1405D4
                 class c extends A?
                        void method (() } system. out. println ("("); }
       import java util. x;
       import java io.x;
       class movieMagic {
             int year;
            Storng yeartitle;
            float rating;
            movie Magic () { // default constructor.
                  year = 0;
                  rating = 0.0f; 11 notice the 'f'
             void accept(){
                  Scanner Sc = new Scanner (System.fn);
                  System. out. pront ("Enter the title of movie;");
                  title = scinextInt();
                 System out point in ("Enter year of release: ");
                  year = Sc. next Int ();
                 System. out pointln ("Enter the movie rating: ");
                 rating = sc.nextFloat();
            void display()?
                  System out println("The title of movie is: "+ title);
                  if (rating >= 0.0 12 rating <= 2.0){
                      System out println (" The more was Flop");
```

Regd No: 19BajAOSDU else if (rating >= 2.1 &x rating <= 3.4){ System-out printen ("The movie was semi-hit") else if (rating >= 1305 x 2 rating < = 4.5){ System out prentln ("The movie was a Het"); else if (rating >= 4.6 xx rating <= 50){ System. out pointln("The movie was superhit"); else f System. out. println ("Rating should be 00-5.0); public static void main (Storng args[])? movieMagic ob = new movie Magic(); 11 created object of class Movie Magic Ob. accept (); ob display(); Output: Enter the title of the movie: RRR Enter the year of release: 2022 Enter the movie rating The 4966 of the movie is RRR movie was a Hit

```
impost jana:10, x;
umport java . Ottle x;
class Overloaded 1 {
     void num_calc (int num, char ch) {
         int s=0;
         if (ch == (5')
            S= num * num;
            S = num * num * num;
        System.ont.println("S="+S);
     voted num-cale ( ent a, int b, chat ch) {
        int 5=0;
        16 (ch = = 'P')
          S = \alpha * b;
        else
        System. out. println("5 = "+5);
     void num_calc (Storng SI, Storng S2) {
          if (SI. equals (S2))
             System. out. print en ("Both strings one equal");
             System out println ("Both storngs are not equal")
     public State void main (storing angs[]) {
           Swanner SC = new Scanner (Systemin);
           Overloaded 1 0b = new Overloaded 1();
           ob. num_cale = (5, 's');
           ob. num_calc (8,3, 'n'):
           ob. num-cale ("Raman", "Naman");
```

Output:-5=25 5=11 Both Storngr are not equal.

Sources:
1st question:- w3 proffessors.com, tent broks in teams.

2nd question:- Greeks for geeks

3rd question:- Greeks for school. Com

4th question:- icsejava.com

-X- THE END -X-

VASIREDDY VENKATADRI INSTITUTE OF TECHNOLOGY, NAMBUR DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Vision of the Department

To facilitate quality education by focusing on assimilation, generation and dissemination of knowledge in the area of Computer Science & Engineering to transform students into socially responsible engineers.

Mission of the Department

- o Equip our graduates with the knowledge by *student centric teaching-learning process* and expertise to contribute significantly to the software industry and to continue to grow professionally.
- o To train *socially responsible, disciplined engineers* who work with good leadership skills and can contribute for nation building.
- o To make our graduates *aware of cutting edge technologies* and make them industry-ready engineers.
- O To shape the department into a centre of academic and research excellence.

Program Educational Objectives					
PEO-1	To provide the graduates with solid foundation in Computer Science and Engineering				
	along with the fundamentals of Mathematics and Sciences with a view to impart in				
	them high quality technical skills like modelling, analyzing, designing, programming				
	and implementation with global competence.				
	To prepare and motivate graduates with recent technological developments related				
PEO-2	to core subjects like programming, databases, design of compilers and Network				
	Security aspects and future technologies so as to contribute effectively for Research				
	& Development by participating in professional activities like publishing and seeking				
	copy rights.				
PEO-3	To train graduates to choose an appropriate career in employment, higher				
	education or entrepreneurship by empowering them to excel in competitive				
	examinations, by preparing them for lifelong learning and by inculcating in them				
	ethical leadership skills.				
	To train the graduates to have basic interpersonal skills and sense of social				
PEO-4	responsibility that paves them a way to become good team members and leaders.				