Ans. to the a no:1

```
(a) public class Calculators

int add (int a, int b)

return (a+b);

f

Jouble add (int a, Jouble b) {

neturn (a+b);
```

double add (int a, double b, Jouble c){
return (a+b+c);

public static void main (String[] angs) {

Calculator calculator = new calculator();

calculator. add (5,5);

calculator. add (10, 15.5);

calculator. add (15, 20.5, 21.7);

3

70

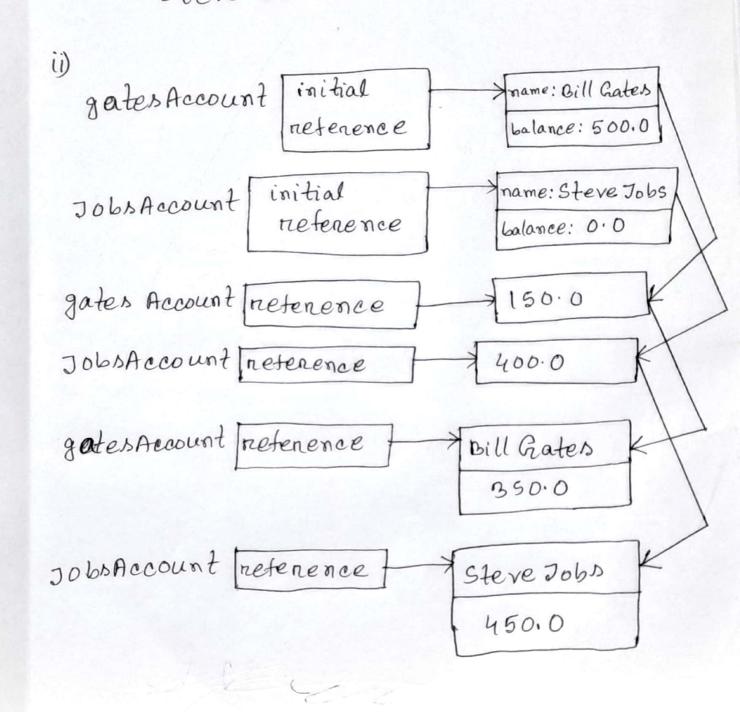
```
1 (b) abstract class conf
       protected String model;
       protected String colon;
       protected int maxSpeed;
        public abstract void accelerate();
        public abstract void breake();
    class Audi entends cand
       @ ovennide
           public void accelerate () {
            system. out. println ("First method.");
       @ Ovennide
          public void brake ()d
            system.out.println("Second method.");
      Audi (String model, String color, int max Speed)
         this model = model;
         this. color = color;
          this. max Speed = max Speed;
```

Ams. to the O. no: 2

(a) i) output:

Bill Gates 350.0

Steve Jobs 400.0



(b) Output: L-567 450.0 L-567

490.0

Ans. to the Q. no: 3

(a) i) class Book? String name; String author; Book (String n, String a) { name = n; author = a; System. out. Println ("This is a Book"); Book () { Il default constructor class Novel extends Book Novel (String a, String b){ System. out. println (mame+" is a novel");

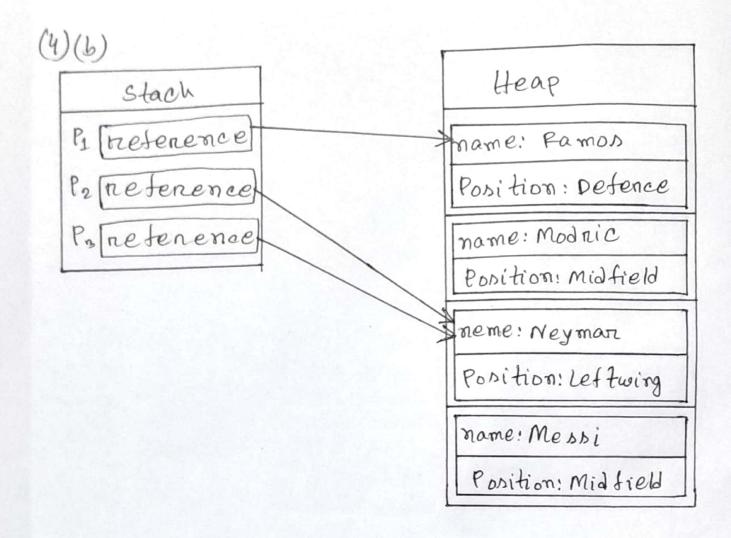
```
class Text Book extends book?
   String edition;
   TentBook() {
     System.out. println ("This is a tentbook");
    public void sethenne (Stringe) {
         edition = e;
 public class Test!
  public static void main (String[] args) {
    Novel N = new Novel ("Hime Mama",
                           "Humayun Ahmed");
i)Output:
     null is a novel
```

3/b OF, class Fractions int num = 1; int denom = 2; Fraction (int num, int denom) { this. num = num; this. denom = denom; public class Main { public static void main (String [] angs) { Fraction f1 = new Fraction (); System.out.println(fl.num+"/"+f1.denom); Fraction +2 = new Fraction (2,5); System. out. println (f2. num+ "/" f2. denom);

Ans. to the a. no: 4

```
a) Package Pack1;
 public class Vehicle?
  protected intid;
   String name;
   public vehicle (String name){
      this name = name;
public String getname () {
      neturn name;
Pachage pach1;
public claso Bike extends Vehicles
    public Bike (String name, intid){
      super (name);
      this. id = id;
    public void Print () {
      system. out. println (name + "+id);
```

```
Pachage pach 1. pack 2;
  import pack 1. Vehicle;
   public class can entends vehicle!
      public Can (String name, intid)?
        super (name);
        this. id;
 public void print () &
    System. out. println (getname () + " "+id);
Pachage Pach 1. Pach 2;
import Pach1 *;
Public Class Main!
  public static void main (String [] angs)
 Vehicle V = new Vehicle ("cart");
   System.out. println (V. getname);
   Can c= new Car ("OMW", 101);
   c. print();
   Bihe b= new Bihe ("Pulsar", 102);
7 36. print();
```



After executting the code P2's data will be override to P3's data. Hence if we try to access P2's name and Position it will be shown P3's data. And the last Messi's position will be change after execute the code. His new position show Midfield.

Ans. to the a. no: 5

a) Output:

I am human

I am student

I am gnaduate student

I am graduate student

I am graduate student

I am gnaduate student

parchitic schools voted

```
(b)
 import java. util. Scanner;
  public class Annay?
   public static void main (String [] angs) {
   Seanner input = new Scanner (System.in);
   int annay []= {1,3,2,4,1,10,10,20,5};
   boolean isfound = false;
    int scan = input. nextInt();
    for (int n; array) of
    if (n = = scan) f
       isfound = true;
 if (istound) 1
        System. out. println ("Found");
  elset
      system.out. println ("Not Found");
```