## Ans. to the a no:1

```
(a) public class calculators
     int add (int a, int b)
       neturn (a+6);
   double add (int a, double b){
       neturn (atb);
  double add (int a, double b, Jouble c){
      neturn (a+6+c);
 public static void main (String[] angs) 1
    Calculator calculator = new calculator();
    calculator. add (5,5);
     calculator. add (10, 15.5);
     calculation. add (15, 20.5, 21.7);
```

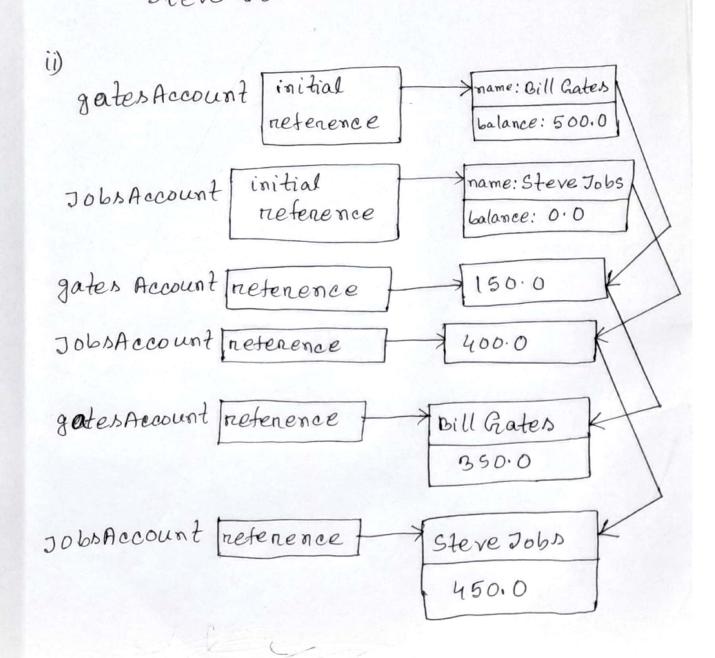
```
1 (b) abstract class conf
       protected String model;
       protected String colon;
       protected int maxSpeed;
        public abstract void accelerate();
        public abstract void breake();
    class Audi entends card
       @ ovennide
           public void accelerate () {
            system. out. println ("First method.");
       @ Overnide
          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 on, String a){
        name = n;
        author = a;
 System. out. Println ("This is a Book");
    Book () of 11 default constructor
class Novel extends Book of
    Novel (String a, String b){
     System. out. println (mame+" is a novel");
```

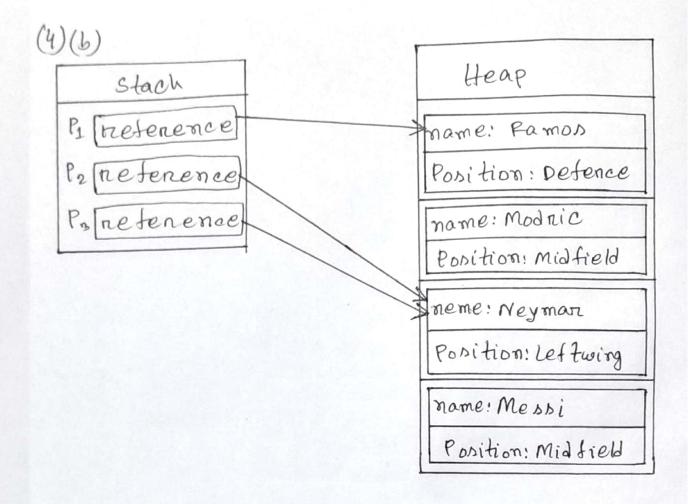
```
class TextBook extends book?
   String edition;
   TentBook() of
     System.out. println ("This is a tentbook");
    public void sethenne (Stringe) {
         edition = e;
 public class Test!
  public static void main (String [] args) {
    Novel N = new Novel ("Himu Mama",
                           "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 1 public static void main (String [] angs) { Fraction f1 = new Fraction(); System.out. println(fl. num+ "/"+fl. Jenom); Fraction +2 = new Fraction (2,5); System. out. println (f2. num+"/" f2. denom);

### Ans. to the a. no: 4

```
a) Package Pack1;
 public class vehicled
  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 vehicles
      public can (string name, intid){
        super (name);
        this. id;
 public void print () of
    System. out. println (getname () + " "+id);
Pachage Pach 1. Pach 2;
import Pach 1 . *;
public class Main!
  public static void main (String [] angs) of
  Vehicle V = new Vehicle ("cart");
   System.out. println (v. getname);
   Can c= new Car ("OMW", 101);
   c. print();
   Bihe 6= new Bike ("Pulsar", 102);
3 b. print();
```



After executting the code P2's data will be overnide 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 Midtield.

# Ans. to the a. no: 5

a) Output:

I am human

I am student

I am graduate student

I am graduate student

I am graduate student

I am gnaduate student

packing analis until me

```
(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 (x = = scan) f
       isfound = true;
 if (infound) 1
        System. out. println ("Found");
  elset
      system.out.println ("Not Found");
  7
```