2) what is importance of constructor ? A) Constructor: - (onstructor: a method like a block of code which is called by java Runtime during object. Created Using new() operated. Constructed are special in case that have same name as the class they are port of They one also special in a sense that they are called by Jum automatically when you create a object. Benefits:-

i) one reason is to initialize your object with default of initial state since default value are primitives. i) one more reason is create constructed to inform the world about dependencies, a class needs to do it

job

Exis class Main of Private int X; 11 construits System. Out. println ("constructor called"): private Main () public Static Void main (string () args) [Main obj = new main (). -your . out . printin(" value of x = "+0 bix);

```
Constructed overloading: - It is a techinque & having more
    than one constructor with different parameter lists
    Public class Overloading Example
    private int voll Non;
      Overloading Example ()
     1 will Now = 100%
     Over-loading Example (int roum)
     1 +his ();
      rollnum = voll Num+ vnum;
    public int getRoll Num() {
          return rollnum;
   public void set Rall Nom (int- roll Nom) (
          this. rollNum = vollNum;
  Public static void main (string args (3)
       Overloading Example . Obj = new overloading Example (10);
     System. Out . println (obj. get ROINUMC));
Static Methods: - Static methods are also Called class
 Methods. It is because a Static method belongs to the
Class vother than object of a class.
Ex: - public Class My class {
         Public Static Void sample ()
             System. out. printly ("Helo");
      Public static void main (string args[]) (
My class . sample ();
```

```
Nexting Members: - A Nexted class is a member and a such has the same acress rights as any other member. As the use of Nexted classes that anable you used in one place, increase the use of encapsulation and create more readable and maintable lade.

Ex:- class Outer class {

11...

class Nexted class {

11...

3

3
```

Public Class Book Fair { String Brane; double price; Book fair (string Brame, double price)[this Brane = Brane; this. price = price; public class Book fair? String Brome . double price; · Book Fair () dy Public void input () { Scanner input « new Scanner (System.in). Brane = input.next(); price = input.double(); Public void calculate() & double discound; if (!rice < = 1000) discount = (2* Price) \$100; else if (price > 1000 & & price < = 3000) discort - (10 price) 1000,

```
else direct = (15t price)/100;

Price = price - discount;

3 poblic void display() {

System. Out. print (+this. Banano + "obprice:" + this price);

Public static void main (string (3 angs) {

Book for B = new Book fair();

b. input();

b. (alculate();

b. display();

}
```

```
4) write a program to accept word check print whether
   the word is a palindrome or only special words.
   impart java. util. scanner;
   class test
    public static void main ()
       Sconner S = new Scanner (System, in);
        System. Out. printin ("Enter a word");
         String w = s. next();
          int- i = w. length ();
        String w, = " ".
       Char chi, chi,
       Por (int k=0; KL1', K++)
          ch . - W. Char A+ (K);1
           101 = chi+ 101;
       3 : f (w. equals (w) = = true)
```

System. Out. println ("It is palindome word");

else if (w. Chan At(o) == w. Chan At(i-i))

System. Out. println ("It is only special word");

else.

System. out. println ("II" is not a special word");

3