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**Practice Problem 5.4 :**

Implement a sort function that illustrates overloading methods. Sort method sorts the array in the default ordering, sorts the array into the specified order, sorts array elements ranging from fromIndex to toIndex in the specified order.

Program :

import java.util.Scanner;

class Overload{

int pos=0;

int size=5;

boolean flag;

int[] ielem= new int[size];

double [] delem= new double[size];

char [] celem=new char[size];

void insert(int a[])

{

for(int i=0;i<size;i++)

{

ielem[i]=a[i];

}

}

void insert(double a[])

{

for(int i=0;i<size;i++)

{

delem[i]=a[i];

}

}

void insert(char a[])

{

for(int i=0;i<size;i++)

{

celem[i]=a[i];

}

}

void linearSearch(int item)

{ int i;

flag=false;

for(i=0;i<size;i++)

{

if(ielem[i]==item)

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{

flag=true;

pos=i+1;

}

}

if(flag==true)

{

System.out.println("The Integer item "+item+" is present at location

"+pos);

}

else {

System.out.println("The Integer item "+item+" does not presnet in

integer array list !!");

}

}

void linearSearch(Double item)

{ int i;

flag=false;

for(i=0;i<size;i++)

{

if(delem[i]==item)

{

flag=true;

pos=i+1;

}

}

if(flag==true)

{

System.out.println("The item "+item+" is present at location "+pos+"

in Double Array list ");

}

else {

System.out.println("The item "+item+" does not presnet in Double

array list !!");

}

}

void linearSearch(char item)

{

int i;

flag=false;

for( i=0;i<size;i++)

{

if(celem[i]==item)

{

flag=true;

pos=i+1;

}

}

if(flag==true)

{

System.out.println("The item "+item+" is present at location "+pos+"

in Char Array list ");

}

else {

System.out.println("The item "+item+" does not presnet in Char

array list !!");

}

}

}

public class TermWork5\_practice\_prob {

public static void main(String [] arg)

{

Overload ol= new Overload();

Scanner ob= new Scanner(System.in);

int n=5;

int [] iitem=new int[n];

double [] ditem=new double[n];

System.out.println("Enter Integer elements into array one by one ");

for(int i=0;i<n;i++)

{

iitem[i]=ob.nextInt();

}

ol.insert(iitem);

System.out.println("Enter Double type elements into array one by one ");

for(int i=0;i<n;i++)

{

ditem[i]=ob.nextDouble();

}

ol.insert(ditem);

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System.out.println("Enter char type elements into array one by one ");

char []citem=ob.next().toCharArray();

ol.insert(citem);

System.out.println("Enter integer item to search ");

int ikey=ob.nextInt();

ol.linearSearch(ikey);

System.out.println(" Enter Double type item to search ");

double dkey=ob.nextDouble();

ol.linearSearch(dkey);

System.out.println("Enter character Item to Search");

char ckey=ob.next().charAt(0);

ol.linearSearch(ckey);

ob.close();

}

}

Output :

