Prac 4

Methods and Constructors

Designed a class SortData that contains the method asec() and desc().

```
import java.util.*;
class prac4A
Scanner input=new Scanner(System.in);
int num,i;
int arr[];
int temp=0;
public void getdata()
System.out.print("Enter the size of array: ");
num=input.nextInt();
arr=new int[num];
System.out.print("Enter the number: ");
for( i=0;i<num;i++)
arr[i]=input.nextInt();
void putdata()
System.out.print("Given numbers are: ");
for(i=0;i<num;i++)
System.out.println(arr[i]);
void asce()
for(i=0;i< num;i++)
for(int j=i+1;j<num;j++)
if(arr[i]>arr[j])
temp=arr[i];
arr[i]=arr[j];
arr[j]=temp;
System.out.print("Ascending order of number are: ");
for(int i=0;i< num;i++)
System.out.println(arr[i]);
```

```
void desc()
for(i=0;i<num;i++)
for(int j=i+1;j<num;j++)
if(arr[i]<arr[j])</pre>
temp=arr[i];
arr[i]=arr[j];
arr[j]=temp;
System.out.print("Descending order of number are: ");
for(int i=0;i<num;i++)
System.out.println(arr[i]);
public static void main(String args[])
prac4A ob=new prac4A();
ob.getdata();
ob.putdata();
ob.asce();
ob.desc();
```

```
Output - prac4a (run) X
     Enter the size of array: 5
     Enter the number: 12
%
     1
     3
     Given numbers are: 12
     1
     3
     Ascending order of number are: 1
     9
     12
     54
     Descending order of number are: 54
     12
     9
     3
      1
```

Designed a class that demonstrates the use of constructor and destructor

```
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* and open the template in the editor.

*/
package prac4a;

/**

* @author lenovo

*/
class xyz
{
    xyz()
{
    System.out.println("Constructor method......");
}
protected void finalize()
{
    System.out.print("Garbage Collected....");
}
}
class prac4B
```

```
{
public static void main(String args[])
{
    xyz ob=new xyz();
    ob=null;
    System.gc();
}
}
Constructor method.......
Garbage Collected.....BUILD SUCCESSFUL (total time: 0 seconds)
```

Write a java program to demonstrate the implementation of abstract class.

```
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package prac4a;
/**
* @author lenovo
import java.util.Scanner;
abstract class test
abstract void get();
class test1 extends test
void get()
int a,b;
Scanner ob=new Scanner(System.in);
System.out.print("Enter 1st Number: ");
a=ob.nextInt();
System.out.println("Enter 2st Number: ");
b=ob.nextInt();
System.out.println("Addition is: "+(a+b));
class prac4C
public static void main(String args[])
test1 obj=new test1();
obj.get();
```

