School of Information Technology & Engineering

Winter Semester 2021-2022

ITA5004 – Object Oriented Programming using JAVA

DIGITAL ASSIGNMENT

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SLOT:L3+L4

CAT 1 - QUESTION 1

(A)Write a java program to illustrate the method overloading the method findMax() to display the biggest number among two integers and two double values passed as arguments.

CODE:

```
import java.util.Scanner;
public class Ansda31{
void findMax()
{
}
void findMax(double a,double b)
{
if(a>b)
{
System.out.println("A is greater");
}
else
{
System.out.println("B is greater");
}
}
public static void main(String[]args)
{
Ansda31 l1=new Ansda31();
```

```
Scanner in=new Scanner(System.in);

System.out.println("Enter the 1st number");

double p=in.nextInt();

System.out.println("Enter the 2nd number");

double k=in.nextInt();

l1.findMax(p,k);

}

}
```
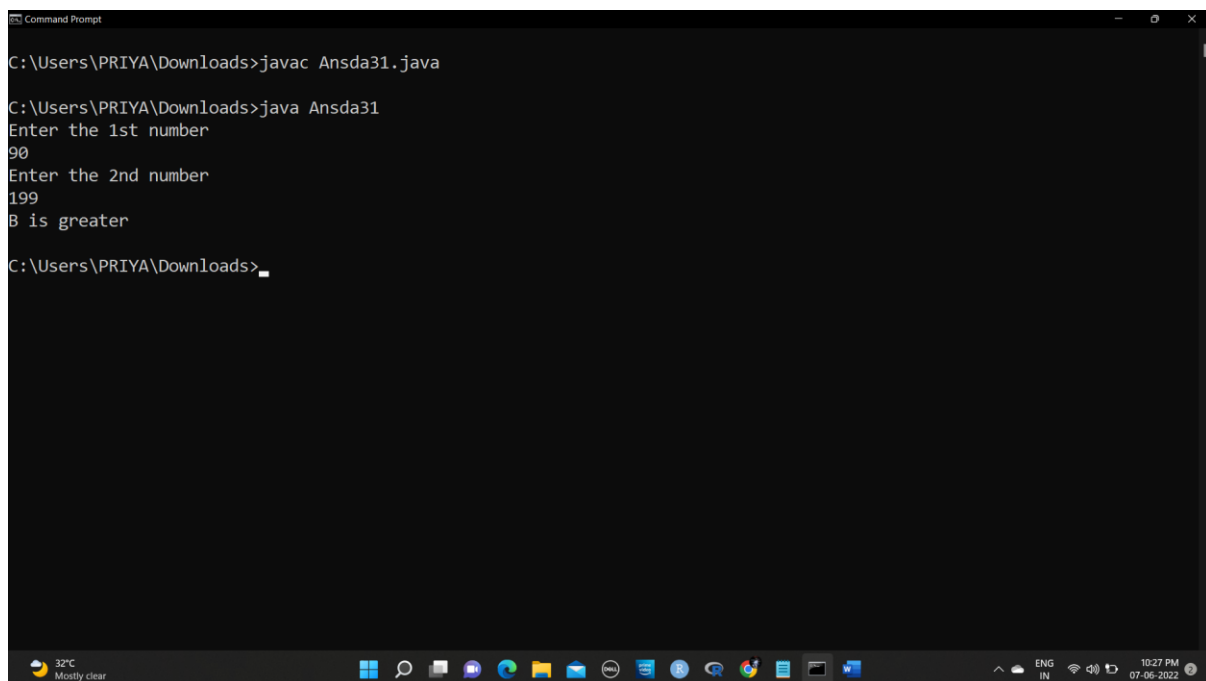
OUTPUT:

(B) Create a class "Employee" as follows:- Instance variables:- empno(long), empname(String), job(String); Methods:- i) void showinfo() - to display details of the employee. Create another class "Salary" that inherits from class "Employee" as follows:- Instance variables:- basic(double), newsal(double) Methods:- i) void calculate(double perc) – that takes percentage amount "perc" as argument and calculates newsalary by incrementing the basic salary by that percentage amount. ii) void dispdata() – to display basic salary. Write a Java program to create an object of class Salary to input details of employee and also invoke showinfo(), calculate() and dispdata() methods. Do it for 'n' employees

CODE:

import java.util.Scanner;

```java
class Employee
{
double empno;
String empname;
String job;
void showinfo()
{
System.out.println("empno"+empno);
System.out.println("empname"+empname);
System.out.println("job"+job);
}
}
public class Salary extends Employee{
 double basic;
double newsval;
void salar(double z , double y )
{
basic=z; newsval=y;
}
void inputemp(double empno,String empname,String job)
{
empno=empno; empname=empname; job=job;

}
void calculate(double perc)
{
basic=basic+(perc/100)*basic;
```
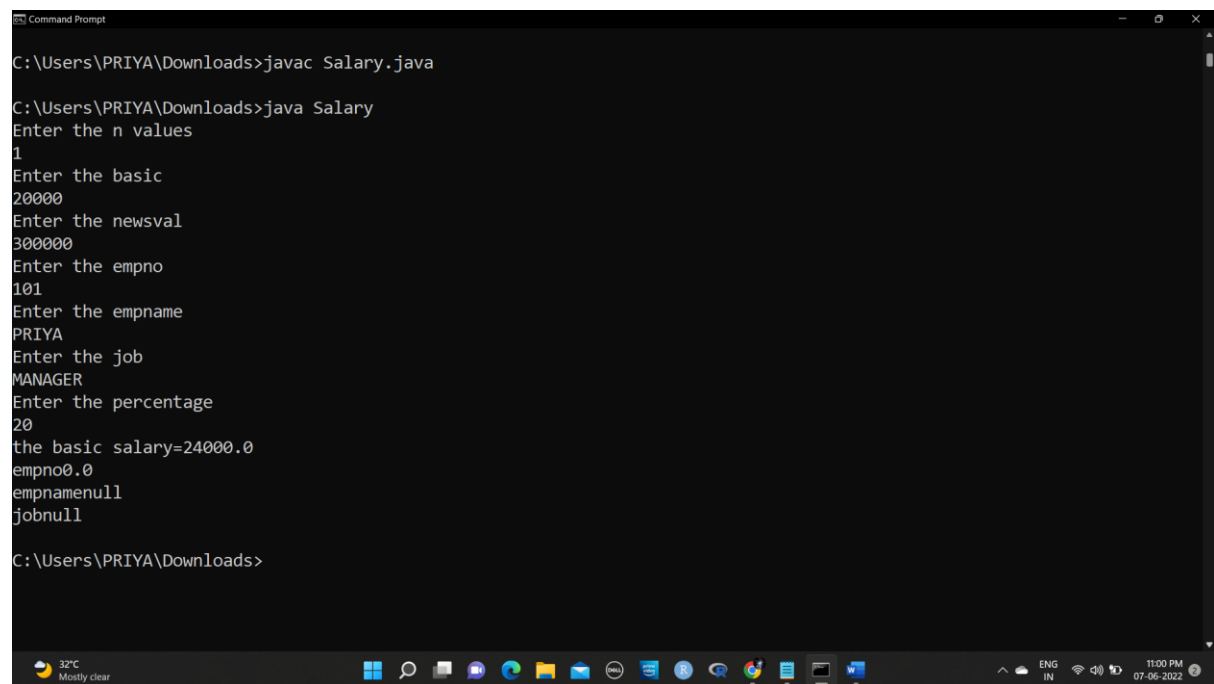
```java
}
void dispdata()
{
System.out.println("the basic salary="+basic);
}
public static void main(String[] args)
{
Scanner in = new Scanner(System.in);
System.out.println("Enter the n values");
int n=in.nextInt();
Salary s[] = new Salary[n];
for(int i=0;i<n;i++)
{
s[i]=new Salary();
System.out.println("Enter the basic");
double h=in.nextInt();
System.out.println("Enter the newsval");
double q=in.nextInt();
s[i].salar(h,q);
System.out.println("Enter the empno");
double l=in.nextInt();
System.out.println("Enter the empname");
String p=in.next();
System.out.println("Enter the job");
String w=in.next(); s[i].inputemp(l,p,w);
System.out.println("Enter the percentage");
double j = in.nextInt();
```

```
s[i].calculate(j);

s[i].dispdata();

s[i].showinfo();

}

}

}
```

OUTPUT:


```
C:\Users\PRIYA\Downloads>javac Salary.java

C:\Users\PRIYA\Downloads>java Salary
Enter the n values
1
Enter the basic
20000
Enter the newsval
300000
Enter the empno
101
Enter the empname
PRIYA
Enter the job
MANAGER
Enter the percentage
20
the basic salary=24000.0
empno0.0
empnamenull
jobnull

C:\Users\PRIYA\Downloads>
```