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Every year a million of students are enrolled for BCA & MCA especially in India. 50 % of students leave their courses due to lack of study materials and resources.

According to university the courses are ideal for students who want to make career in technical field.

IGNOU provides a lot of study materials that provides deep knowledge of subjects.

www.pixelesindia.com
Uttam Nagar & Nangloi
Contact No:- 9213327975, 8750321695, 9716339580

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BCSL-043(P)/S1: JAVA PROGRAMMING LAB

1. Write a Java program to create Player class. Derive Cricket_Player and Football_Player classes from Player class. Define proper constructor for all the classes. Also define Display_Info method in all the three classes to display details of the players.

Ans:

```
class player
{
int pno;
String name;
public player(int n, String nn)
{
pno=n;
name=nn;
}
void show()
{
System.out.print("\nPlayer No="+pno+"\n Player Name="+name);
}
};
class cricket_player extends player
{
String tname;
String type;
public cricket_player(int a, String b, String s)
{
super(a,b);
tname=s;
type="Cricket";
}
void disp()
{
System.out.print("\nTeam="+tname+"\ntype="+type);
}
```

```
}
}
class football_player extends player
{
String tname,type;
public football_player(int a, String b, String s)
{
super(a,b);
tname=s;
type="FootBall";
}
void disp()
{
System.out.print("\nTeam="+tname+"\ntype="+type);
}
}
class p1
{
public static void main(String arg[])
{
football_player ft=new football_player(1,"Avinash","Mohan
Bagan");
cricket_player ct=new cricket_player(10,"Ashu","Delhi");
ct.show();
ct.disp();
ft.show();
ft.disp();
}
}
```

2. Write a Java program to add two matrices, with proper implementation of exception handling mechanism.[40]

Ans:

```
import java.util.Scanner;
```

```
class p2
{
public static void main(String args[]) throws
ArrayIndexOutOfBoundsException
{
int m, n, i, j;
Scanner in = new Scanner(System.in);

System.out.println("Enter the number of rows and columns of matrix");
m = in.nextInt();
n = in.nextInt();

int first[][] = new int[m][n];
int second[][] = new int[m][n];
int sum[][] = new int[m][n];

System.out.println("Enter the elements of first matrix");

for ( i = 0 ; i < m ; i++ )
for ( j = 0 ; j < n ; j++ )
first[i][j] = in.nextInt();

System.out.println("Enter the elements of second matrix");

for ( i = 0 ; i < m ; i++ )
for ( j = 0 ; j < n ; j++ )
second[i][j] = in.nextInt();
System.out.print("\nsum of matrix\n");
for ( i = 0 ; i < m ; i++ )
{
for ( j = 0 ; j < n ; j++ )
{
sum[i][j] = first[i][j] + second[i][j];
}
```

```

        System.out.print(sum[i][j]+"\\t");
    }
    System.out.println();
}
}
}

```

3. write a Java program to create Complex_Number class and create objects of complex numbers. Define proper constructor for this class. Define the method to find the sum of two complex numbers and display the sum. 40

Ans:

```

class Complex
{
int real,img;
Complex()
{
}
Complex(int r,int i)
{
real=r;
img=i;
}
Complex Add(Complex C1,Complex C2)
{
Complex tot=new Complex();
tot.real=C1.real+C2.real;
tot.img=C1.img+C2.img;
return tot;
}
}

class p3

```

```

{
public static void main(String[] a)
{
Complex C1=new Complex(4,8);
Complex C2=new Complex(5,7);
Complex C3=new Complex();
C3=C3.Add(C1,C2);
System.out.println("SUM=" + C3.real + "+i "+ C3.img);
}
}

```

4. Write a Java program to create an applet to draw a circle. Set background color of the circle as red. Also write your name and roll number below the circle.

Ans:

```

*<applet code="p4" width="500" height="500"></applet>*/
import java.awt.*;
import java.applet.*;

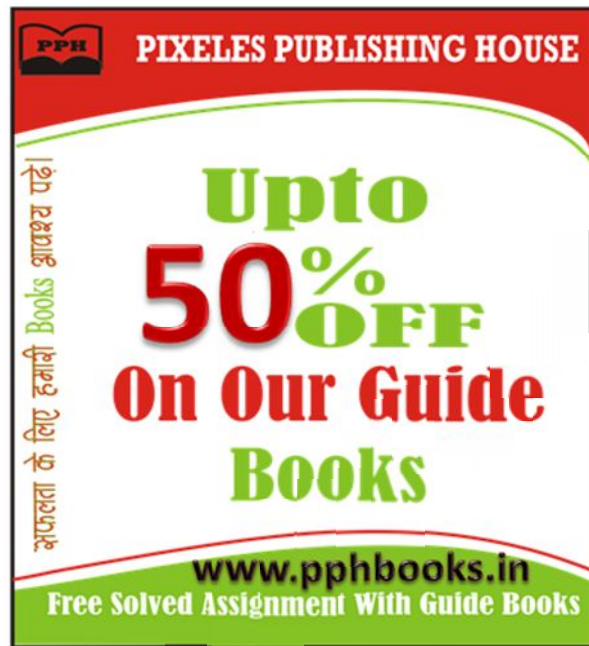
```

```

public class p4 extends Applet
{
String roll="1477788898";
String name="PIXELS CLASSES";
public void init()
{
}

public void paint(Graphics g)
{
g.setColor(Color.red);
g.fillOval(100,100,200,200);
g.drawString(roll,150,320);
g.drawString(name,150,350);
}
}

```



PPH is a unit of PIXELES Classes. When we started **PIXELES Classes**, we realised that students face various problems those are enrolled in **IGNOU**, because there are lack of study materials in market. Some study materials available in market do not cover student's requirements and pattern of examination.

We have published special books for **BCA (IGNOU)** students only. It covers pattern of examination and needs of students. It is an **Exam Master for BCA (IGNOU)** students that helps to improve knowledge and secure good marks in examination. **Guide books are published by PIXELES PUBLISHING HOUSE, New Delhi.** This Guide Book is prepared by our experienced faculties.

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