

Week5 – Batch 3

Monday, December 06, 2021 12:28 PM

Q1. Write a java program to store student record of college named “MIT”. Class Student_Detail should contain name, id, college_name as its members.display_details() method should display the details of the students

Program:

```
package MIT;

import java.util.Scanner;

public class Student {

    public static void main(String[] args) {
        // TODO Auto-generated method stub
        Scanner sc=new Scanner(System.in);
        try {
            System.out.println("No. of Students: ");
            int n=sc.nextInt();
            Student_details[] Students=new Student_details[n];
            for(int i=0;i<n;i++) {
                System.out.println("Name: ");
                String name=sc.next();
                System.out.println("College: ");
                String CollegeName=sc.next();
                System.out.println("Id: ");
                int id=sc.nextInt();
                Students[i]=new Student_details(name,CollegeName,id);
                Students[i].Display_details();
            }
        }
        catch(Exception e)
        {
            System.out.println("Error");
        }
    }
}
```

Output:

No. of Students:

5

Name:

Arya

College:

MIT

Id:

2009

Name: Arya

College: MIT

ID: 2009

Name:

Anshul

College:

MIT

Id:

2008

Name: Anshul

College: MIT

ID: 2008

Name:

Aryaman

College:

MIT

Id:

2008

Name: Aryaman

College: MIT

ID: 2008

Name:

Arham

College:

MIT

Id:

200

Name: Arham

College: MIT

ID: 200

Name:

Arnav

College:

MIT

Id:

2000

Name: Arnav

College: MIT

ID: 2000

**Q2. Create an interface called “sports” with methods
getNumberOfGoals and dispTeam. Create classes Hockey and football
that uses the interface “sports”. Write the appropriate code for the
methods**

Program:

```
package MIT;
```

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

```
import java.util.InputMismatchException;
```

```
interface sports{  
    abstract void getNumberOfGoals();  
    public abstract void dispTeam();  

```

```
}  
class Hockey implements sports{  
    Scanner sc = new Scanner(System.in);  
    String Player;  
    int Goals=0;  
    Hockey(String P){  
        Player = P;  
    }  

```

```
    public void dispTeam() {
```

```
        System.out.println( Player);
```

```
        System.out.println( Goals);
```

```

}

@Override
public void getNumberOfGoals() {
// TODO Auto-generated method stub
System.out.println("Hockey Goals: ");
Goals = sc.nextInt();
}

}

class Football implements sports{
Scanner sc = new Scanner(System.in);
String player;
int goals=0;
Football(String p){
player = p;
}

public void dispTeam() {

System.out.println( player);
System.out.println( goals);
}
@Override
public void getNumberOfGoals() {
// TODO Auto-generated method stub
System.out.println("Football Goals: ");
goals = sc.nextInt();
}

}

public class teams {
public static void main(String[] args) {
// TODO Auto-generated method stub
Scanner sc = new Scanner(System.in);
String name= "";
System.out.println("Team: ");
try {
name = sc.nextLine();
Hockey H = new Hockey(name);
H.getNumberOfGoals();
H.dispTeam();
Football F = new Football(name);
F.getNumberOfGoals();
F.dispTeam();
}
catch(InputMismatchException e) {
System.out.println("Enter Valid Input!!");
}
}
}

```

Output:

Team:

India

Hockey Goals:

6

India

6

Football Goals:

