

staff - Notepad

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```
package Staff;
import java.util.Scanner;
public class staff{
    public Scanner sc=new Scanner(System.in);
    public String nameofstaff;
    public int semofstaff;
    public void gdetails1(){
        System.out.println("Enter your name:");
        nameofstaff=sc.next();
        System.out.println("Enter your Semester you teach in:");
        semofstaff=sc.nextInt();
    }
}
```

student - Notepad

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```
package Student;
import Staff.*;
import java.util.Scanner;
public class student extends Staff.staff{
    public String nameofstud;
    public int semofstud;
    public void gdetails2(){
        System.out.println("Enter your name:");
        nameofstud=sc.next();
        System.out.println("Enter your Semester:");
        semofstud=sc.nextInt();
    }
}
```

Wk9extr1 - Notepad

File Edit Format View Help

```
import Staff.*;
import Student.*;
import java.util.Scanner;
class Wk9extr1{
public static void main(String args[]){
Scanner sc=new Scanner(System.in);
int t,s;
System.out.println("Enter the number of teachers:");
t=sc.nextInt();
Staff.staff ob1[]=new Staff.staff[t];
for(int i=0;i<t;i++){
ob1[i]=new staff();
ob1[i].gdetails1();
}
System.out.println("Enter the number of Students:");
s=sc.nextInt();
Student.student ob2[]=new Student.student[s];
for(int i=0;i<s;i++){
ob2[i]=new student();
ob2[i].gdetails2();
}
System.out.println("Your Course teachers are:");
for(int k=0;k<t;k++){
System.out.println(ob1[k].nameofstaff());
}
}
}
```

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C:\Users\AKSHAY RASTOGI>cd desktop\java prog\Wk9

C:\Users\AKSHAY RASTOGI\Desktop\java prog\Wk9>cd Staff

C:\Users\AKSHAY RASTOGI\Desktop\java prog\Wk9\Staff>javac staff.java

C:\Users\AKSHAY RASTOGI\Desktop\java prog\Wk9\Staff>cd ..

C:\Users\AKSHAY RASTOGI\Desktop\java prog\Wk9>cd Student

C:\Users\AKSHAY RASTOGI\Desktop\java prog\Wk9\Student>student.java

C:\Users\AKSHAY RASTOGI\Desktop\java prog\Wk9\Student>cd ..

C:\Users\AKSHAY RASTOGI\Desktop\java prog\Wk9>javac Wk9extr1.java

C:\Users\AKSHAY RASTOGI\Desktop\java prog\Wk9>java Wk9extr1

Enter the number of teachers:

2

Enter your name:

Akshay

Enter your Semester you teach in:

3

Enter your name:

Ravi

Enter your Semester you teach in:

4

Enter the number of Students:

2

Enter your name:

Ram

Enter your Semester:

3

Your Course teachers are:

Akshay

Ravi

Enter your name:

Ishita

Enter your Semester:

2

Your Course teachers are:

Akshay

Ravi

C:\Users\AKSHAY RASTOGI\Desktop\java prog\Wk9>

Week 9 (extra Programs)

```
1) package Staff;
import java.util.Scanner;
public class staff {
    public Scanner sc = new Scanner(System.in);
    public String nameofstaff;
    public int semofstaff;
    public void gdetails() {
        System.out.println("Enter your name : ");
        nameofstaff = sc.nextLine();
        System.out.println("Enter your semester you teach in : ");
        semofstaff = sc.nextInt();
    }
}
```

```
package Student;
import Staff.*;
import java.util.Scanner;

public class student extends Staff.Staff {
    public String nameofstud;
    public int semofstud;
    public void gdetails() {
        System.out.println("Enter your name : ");
        nameofstud = sc.next();
        System.out.println("Enter your semester : ");
        semofstud = sc.nextInt();
    }
}
```

```
import Staff.*;  
import Student.*;  
import java.util.Scanner;  
class Wk9ex2 {  
    public static void main (String args [ ]) {  
        Scanner sc = new Scanner (System.in);  
        int t, s;  
        System.out.println ("Enter the number of teachers : ");  
        t = sc.nextInt();  
        Staff.staff ob1 [] = new Staff.staff [t];  
        for (int i = 0; i < t; i++) {  
            ob1 [i] = new Staff();  
            ob1 [i].getdetails1();  
        }  
    }
```

```
System.out.println ("Enter the number of Students : ");  
s = sc.nextInt();  
Student.student ob2 [] = new Student.student [s];  
for (int i = 0; i < s; i++) {  
    ob2 [i] = new Student();  
    ob2 [i].getdetails2();  
}  
System.out.println (ob1 [k].name of staff);  
}
```

- 2) The file company.java will not compile because age is a protected variable, so it cannot be accessed outside its package.

protected double age = 35.0 ;