

**Dt : 9/9/2022**

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**packages in Java:**

**=>packages are the collection of 'classes and Interfaces'.**

**=>packages are categorized into two types:**

**1.Pre-defined packages**

**2.User defined packages**

**1.Pre-defined packages:**

**=>The packages which are already defined and available from JavaLib are known as Pre-defined packages or Built-in packages.**

**=>The following are some important packages from JavaLib:**

**java.lang - Language package(default package)**

**java.util - Utility package**

**java.io - Input Output Stream package**

**java.net - Networking package**

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**2.User defined packages:**

**=>The packages which are defined by the programmer are known as User defined packages or Custom packages.**

**=>we use 'package' keyword to define packages:**

**syntax:**

*package package\_name;*

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**Creating JavaProject using IDE Eclipse:**

**(IDE - Integrated Development Environment)**

**step-1 : Open IDE Eclipse,while opening name the WorkSpace  
(folder) and click 'Launch'.**

**step-2 : Create JavaProject**

**Click on File->new->Project->Java->Select 'Java Project' and  
click 'Next'->name the project and click 'finish'**

**step-3 : Create packages in 'src'**

**RightClick on 'src'->new->package,name the package and click  
'finish'.**

**step-4 : Create classes in packages**

**RightClick on package->new->class,name the class and click  
'finish'.**

**Note:**

**=>To increase the font,click on Window->Preferences->**

**General->Appearance->Colors and Fonts->Java->**

Java Editor Text font->...

*EmployeeSalary.java*

```
package p1;  
public class EmployeeSalary {  
    public float cal(int bSal) {  
        return bSal+(0.93F*bSal)+(0.63F*bSal);  
    }  
}
```

*EmpMainClass.java*

```
package p2;  
  
import java.util.Scanner;//Predefined class  
  
import p1.EmployeeSalary;//User defined class  
  
public class EmpMainClass {  
  
    public static void main(String[] args) {  
  
        Scanner s = new Scanner(System.in);  
  
        System.out.println("Enter the bSal:");  
  
        int bSal = s.nextInt();  
  
        if(bSal>=12000)  
        {  
  
            EmployeeSalary es = new EmployeeSalary();  
  
            float totSal = es.cal(bSal);  
  
            System.out.println("TotSal:"+totSal);  
  
        }//end of if  
  
        else  
  
        {
```

```

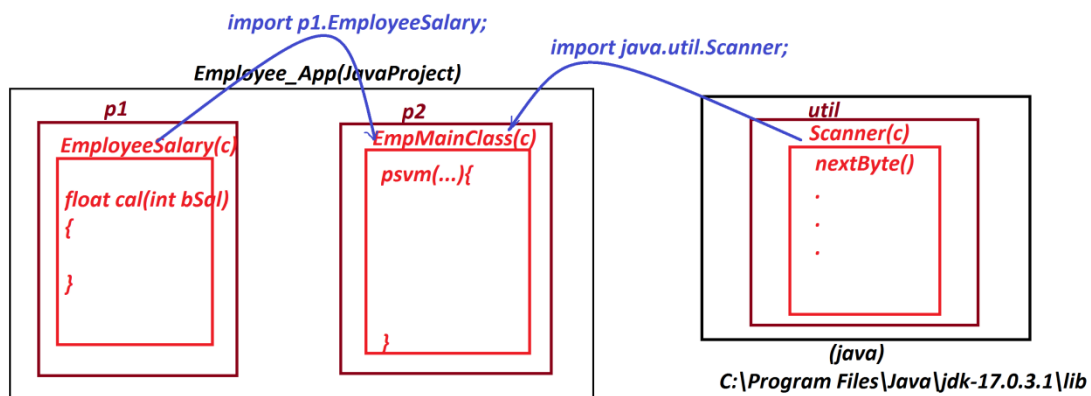
        System.out.println("Invalid bSal...");
    }
    s.close();
}
}

```

**step-5 : Execute the program**

**Open MainClass and click Run->Run**

**Diagram:**



**Assignment-1 :**

**JavaProject : ArithmeticOperations\_App**

**packages,**

**p1 : Addition,Subtraction,Multiplication,Division,**

**ModDivision**

*p2 : ArithmeticMainClass*

*Assignment-2:*

*JavaProject : StudentDetails\_App*

*packages,*

*p1 : CheckBranch,TotalMarks,Percentage,StudentResult*

*p2 : StudentMainClass*

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