**1. Creating your first project and console program (similar to the YouTube-video)**

This exercise is a must for those who have not used the NetBeans IDE before. It walks you through the steps needed to set up a project, create a simple **console** application and then compile, build and run it.

Here is the URL: <http://www.netbeans.org/kb/docs/java/quickstart.html#build>

**2. Application with more than one class**

**Putting classes in a package**

In this exercise we will create the following:

* A project named **EmployeeProj**
* A package named **EmployeePkg**
* Two classess to be placed within EmployeePkg package
  + **EmployeeTester** – this will have the main() method in it
  + **Employee** – this class will be called from EmployeeTester

Creating a new Project:

Graphical user interface, text, application

Description automatically generated

Press **Next.** (you can either use Maven or Ant). Complete the Project name and press **Finish**.

Graphical user interface, text, application, email

Description automatically generated

Right click Source Packages and select **New -> Java Package**

Graphical user interface, text, application, chat or text message

Description automatically generated

Graphical user interface, application, Word

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Complete the package name and press **Finish.**

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Description automatically generated

Right click EmployeePackage to add new Java Class.

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Complete the Class Name and press **Finish** for the required classes.

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If the Employee class is not already opened, then double click the Employee class.

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Enter the following code into the **Employee** class:

private String name; // instance field – employee name

private double salary; // instance field – employee’s salary

public Employee(String employeeName, double currentSalary)

{

this.name = employeeName;

this.salary = currentSalary;

}

//to get the name of Employee

public String getName()

{

return name;

}

// to get the salary of employee

public double getSalary()

{

return salary;

}

// to increase the salary of employee by the given percent

public void raiseSalary(double percent)

{

salary += salary\*percent/100;

}

Now, enter the following code in the EmployeeTester class:

public static void main(String[] args)

{

Employee harry = new Employee("Harry Hacker", 50000);

harry.raiseSalary(10);

System.out.println(harry.getName());

System.out.println("Expected: Harry Hacker");

System.out.printf("%.2f\n",harry.getSalary());

System.out.println("Expected: 55000.00");

}

Right click EmployeeProject to Clean and Build and run.

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Right click EmployeeProject to Run the program.

Graphical user interface, text, application, Word

Description automatically generated

Select the main class

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You should get an output that looks like the following:

Harry Hacker

Expected: Harry Hacker

$55000.00

Expected: $55000.00

**3. Using the Random number generator class**

Create a Java Class DieSimulator and test it. Note the minimum and maximum value from the DieRoll should be 1 and 6 respectively.

**Hint**:

1. Use the following import statement above the class:

import java.util.Random;

1. Statements inside the main() method:

Random generator = new Random();

System.out.println(generator.nextInt(6) + 1);