## Tutorial 9

1. Briefly explain the term class. In your explanation include details on the difference between an object and a class.
2. Consider Employee as a part of payroll system. What could be the attributes that will be needed in system?
3. How many constructors this class should have?
4. What are other methods this class can have?
5. Briefly explain the purpose of the following line of code:

Employee employee1 = new Employee();

1. Create new project, package and create this class with all variables, constructors, getter, setter and other methods (to print the details of object and to calculate the pay of employee).
2. Create a test class which will have main method in it and will do as follows:

* Create five different objects of Employee class using all constructors. One should be created at least using non-parametrised constructor.
* For objects created with non-parametrised constructor, use setter to set the values and display the details.
* For all other objects, display details of all employees using other method.

1. Vaccine Class

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| **Vaccine** |
| - VaccineID: int  - VaccineName: String  - manufacturer: String  - expiryDate: String |
| + Vaccine()  + Vaccine(int,String, String, String)  + getVaccinationId(): int  + setVaccinationId(int)  + getVaccineName(): String  + setVaccineName(String)  + getManufacturer(): String  + setManufacturer(String)  + getExpiryDate(): String  + setExpiryDate(String)  + toString(): String |

* 1. How many constructors does the class Vaccine provide?
  2. How many methods does the class Vaccine provide?
  3. How many instance variables does the class Vaccine have?
  4. Briefly explain the purpose of the following two lines of code:

Vaccine Pfizer;

Pfizer = new Vaccine();

* 1. The two lines of code can be combined into one. Provide this one line of code:
  2. What method is used to set the VaccineID of an instance of the Vaccine class? What data type does it expect as an argument?
  3. What method is used to set the VaccineName of an instance of the Vaccine class? What data type does it expect as an argument?