**Exercise 1 :** *In the Assignment 1 Exercise , create a super class called Animal and make all the existing classes as the sub class for Animal class. Move the method isVegetarian and canClimb to the super class and implement generically. Whenever necessary change the implementation of these methods in the respective subclasses.Display the characteristic of each animal.*

**Exercise 2 :***Create a class called Worker. Write classes DailyWorker and SalariedWorker that inherit from*

*Worker.Every worker has a name and a salaryrate. Write method Pay (int hours) to compute*

*the week pay of every worker. A Daily worker is paid on the basis of the number of days*

*she/he works.The salaried worker gets paid the wage for 40 hours a week no matter what the*

*actual hours are. Test this program to calculate the pay of workers.*

**Exercise 3 :***Modify Lab Exercise 1 by creating intermediate Super classes called WildAnimals and*

*DomesticAnimals and create corresponding subclasses for the same. Create generic*

*methods in the super class and display the details of wild animals, domestic animals in*

*general separately and also display the details of each animal separately.*

**Exercise 4 :***Create the classes required to store data regarding different types of courses that employees*

*Ina company can enroll for. All courses have name and course fee. Courses are also either*

*classroom delivered or delivered online. Courses could also be full time or part time. The*

*program must be menu based input which enables the course coordinator to register*

*employees for courses, list out employees registered for specific courses, deregister employees*

*from a course.*

**Exercise 5:**

1. *Create a new project in which create a package named org.animals. In that create various classes like Lion, Tiger, Deer, Monkey, Elephant and Giraffe. In each class create data members like color, weight, age etc. Create methods like isVegetarian, canClimb, sound etc*
2. *Create another project and in that create a package called zoo and create a class called VandalurZooand create* ***array of objects*** *for the animals that are existing in zoo and print the characteristic of each animal.*
3. *Create a class called Sample. Write a program to display the no of objects created for that*
4. *class or the no of times that class is instantiated.*

**Exercise 6 :***Create a class called Sample. Write a program to display the no of objects created for that*

*class or the no of times that class is instantiated.*

**Exercise 7 :***In the Lab Exercise 5, make the Lion, Tiger, Deer, Monkey, Elephant and Giraffe classes such*

*that these classes cannot be inherited.*