**Lab Exercise No:**1

**Exercise:***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.*

**Lab Exercise No:**2

**Exercise:***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.*

**Lab Exercise No:**3

**Exercise:***Create two interfaces namely Drawable and Fillable. Create class called Line, Circle, Square and*

*implement following methods through interface.*

*<I>Drawable ------ drawingColor(), thickness()*

*<I>Fillable ---------- fillingColor(), size()*

**Lab Exercise No:**4

**Exercise:***Createa package called bank with the following Interfaces.*

*<Interface> Account*

*<Interface>DepositAcc <Interface>LoanAcc*

*<Interface> Interest*

*<Interface>CreditInterest <Interface>DebitInterest*

1. *<Interface> Account*

*Data members: Four String variables to hold the account type “Savings, Fixed,PersonalLoan,*

*HousingLoan”*

*Methods: createAcc()*

1. *<Interface>DepositAcc*

*Methods: withdraw (), deposit(),getBalance()*

1. *<Interface>LoanAcc*

*Methods: repayPrincipal (),payInterest (),payPartialPrincipal ()*

1. *<Interface>Interest*

*Data members: Four double variables to hold the interest percentage of Savings account, Fixed*

*deposit account,PersonalLoan account and HousingLoan account.*

*Methods: calcInt()*

1. *<Interface>CreditInterest*

*Methods: addMonthlyInt(),addHalfYrlyInt(),addAnnualInt()*

1. *<Interface>DebitInterest*

*Methods: deductMonthlyInt(),deductHalfYrlyInt(),deductAnnualInt()*

*Create a package called BankImpl and create the following classes in it.*

1. *SavingsAcc which implements DepositAcc and CreditInterest*
2. *FDAcc which implements DepositAcc and CreditInterest*
3. *PersonalLoanAcc which implements LoanAcc and DebitInterest*
4. *HousingLoanAcc which implements LoanAcc and DebitInterest*

*Now create a class called MyAccount and create instances of all the accounts and generate appropriate output.*