**Assignment 4**

Design and implement applications using basic OOP paradigms.

Analyze following class diagram and answer below questions.

1. **Identify the classes**

**Classes:**

(i)Company

(ii)Employee

(iii)Manager

(iv)Contractor

1. **Identify the relationships between each classes**

Employee works for a Company N:1

Manager Supervises an Employee 1:N

Employees who come on the bases of contractor 1:1

c) **Identify the attributes and methods**

**class :Company**

**Attributes:**

Name.

Employees

**Methods:**

getName()

getEmployees()

**class :Employee**

**Attributes:**

String Name

int EmployeeID

int salary

Manager manager

**Methods:**

getName()

getEmployeeNumber()

getSalary()

getManager()

**class: Manager**

**Attributes:**

ArrayList Employee

**Methods:**

addTeamMemebers()

getTeamMembers()

**Class :Contractor**:

**Attribute:**

length 0f contract

**Methods:**

getLengthOfContract().