**Assignment-1**

**Submit only the full code in a .pdf file**

**Same code will get ZERO**

On your selected project topic, al first design and then **write the full code** by considering following requirements

1. Identify 5 different objects

2. Each object must have 2 states and 2 behaviors

3. Name the class for each type of objects

4. Define minimum 2 child classes for each class

5. Each child class must have minimum one method

6. There must be 1 interface and 1 abstract class in your code(try to brainstorm)

7. Implement factory method design pattern for all families

8. Call all the methods by using factory objects from the main method.

**Question 1:** Are you able to call all the methods of child classes with factory object? Justify your answer.