

Name - Gajiya Ankita Kesurbhai

Enrollment - 12008101

ASSIGNMENT

1] Definition:-

Write a program to create different types of document like WORD, PDF, TXT etc... using factory method pattern.

2] Classes -

- Worddoc
- Pdfdoc
- Txtdoc

3] Class Diagram -

Worddoc	Pdfdoc	Txtdoc
- Create()	- Create()	- Create()
- Save()	- Save()	- Save()

4] Methods :-

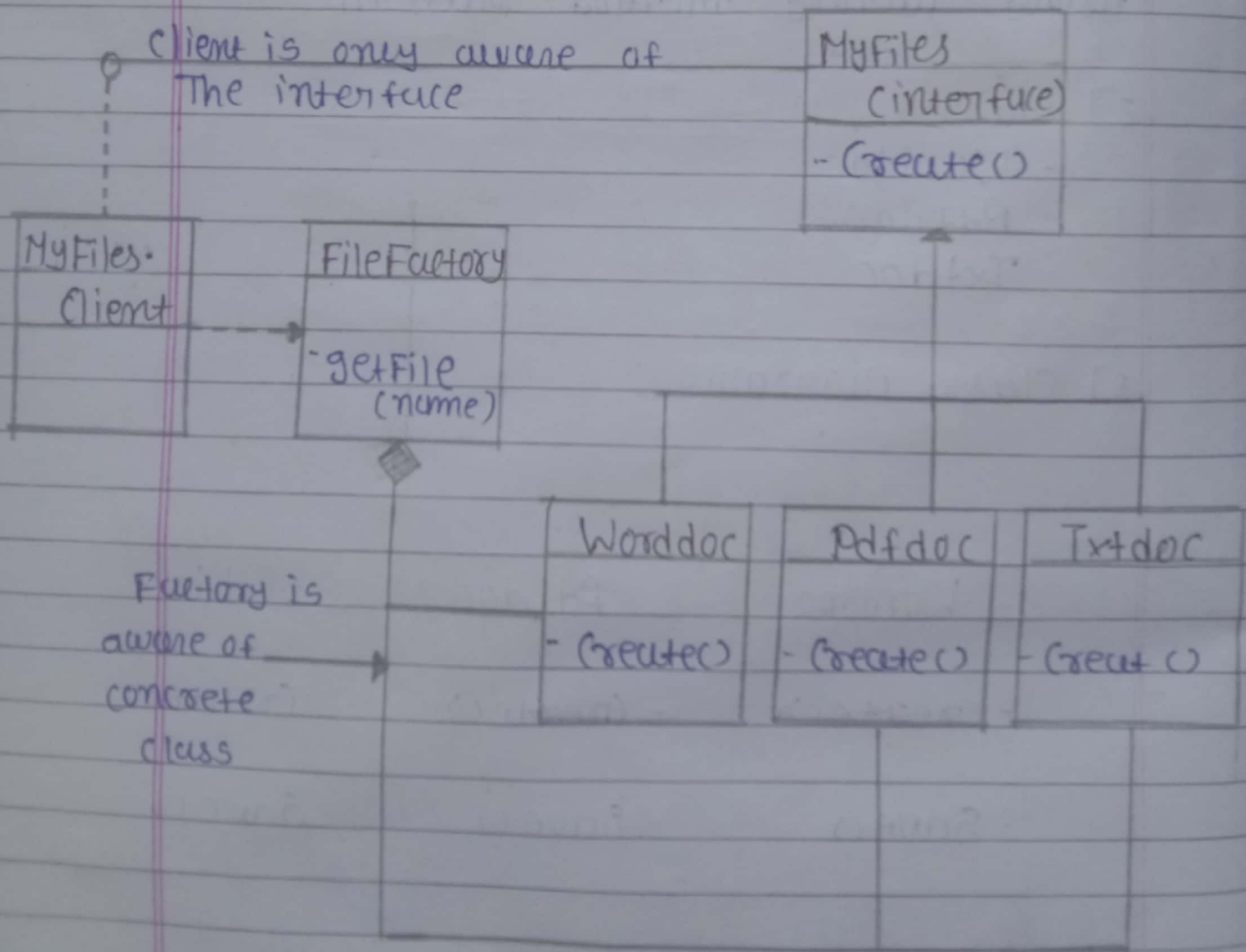
- Create()
- Save()

5] Data Members :-

- Int ch;

6] Structure

Client is only aware of
The interface



7] Name of Participants -

- Product :- Defines the interface of objects the factory method creates (MyFiles)
- Concrete Product - implements the Product interface (Worddoc, Pdfdoc, Txtdoc)
- Concrete Creator - Returns instance of concrete product (FileFactory)
- Creator - may call factory methods to create a product object (MyFilesClient)

8] Known As -

Virtual Constructor

9] Consequences :-

- Can work with any user-defined concrete product classes.
- A class wants its subclasses to specify the object.
- A family of objects needs to be seperated by using shared interface.
- The code needs to deal with interface, not implemented classes.

- Hide concrete classes from the client.
- The returned object should be concrete object.
- It introduces weak coupling instead of tight coupling by hiding concrete classes from the application.
- It provides a simple way of extending the family of products with minor changes in application code.