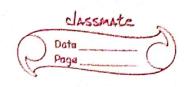
Assignment no-12

	Title - Template design pattern and exception
	handling in Java.
	Problem statement - Hrite a program on tem and exception handling in Java in this assign multiple templates are to be designed as a pand these patterns to be used to take decision.
	Objective - OTO understand and use concept
Soften Washington	template design nattin
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Templates means present format like HTML templates which has fixed present format similarly in template method pattern a preset structure method called template method which consists of steps. Thus template method defines algorithm but exact steps can be defined in subclasses.

Components -

Abstract class- It defines template method defining the structure of algorithm and it also defines abstract operation that will be implemented by subclasses to define steps of algorithm

concrete class - It implements abstract operation of super class to carry out subclass specific steps of the algorithm and also overrides operation if default behaviour is not required.

Exception handling -

An exception is a error condition that changes
the normal flow of control in a program Exception is
an object which is thrown at runtime. Exception
handling in java is one of the important
mechanism to handle the runtime errors so that
normal flow of the application can be
maintained.

	Date Page
(1)	An exception can occur for many different reasons: An user has entered invalid data A file that needs to be opened cannot be found. A network connection has been lost in the middle of communication or the JVM has run out.
	of memory.
	There are three types of exceptions
0	Checked Exception
	The dasses that extend Throwable class except
	exception eg. 10 Exception, sol Exception.
Œ	Onchected Exception-
-	The classes that ewand Runtime Exception are known as unchecked exceptions eg Arithmatic exception, NULL Pointer Exception
3	Error-
	Error is irrecovrable eg
20.41	Outof Memory Error, Virtual Machine Error, etc
	There are 5 types keywords used in java exception handling O try
	1 cgtch
	1 finally
	1 throw
	5 throws



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	Algorithm
	Todala Mall I Ni
	Template Method Design Pattern
0	pefine abstract class with template method consists of
	abstract the mode and common methods
_0	common implementations of individual steps are
	defined in base class
0	Override or implement specific step to sub class
_0	Template method in super class should not be
	overriden so make it final
	and the state of t
	Syntax of exception handling
	try and the same of the same o
	3
	// statement that con cause exceptions
	The surface of the state of the
	cotch (Exception e)
	- {
	Il statement to be displayed after calculating the
	lexception
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G	Conclusion -
	We successfully implemented the assignment and
	understood the concept of template design pottern
	and exception handling in java.

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