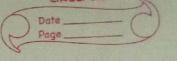
Assignment No-12



Title: Templote & Excaption handling in java.

Problem statement: - Write a program an template an exception handling in java. in this assignment multiple template & to be designed as a pattern & take pattern to be yed to take desiciony.

Objective:

i) To understand the concept of template of exception handling in java.

ii) To understand how multiple template

are to be designed as a pattern.

Theory: - Demostic) diem him. sitiste side

Template: Template are the foundation of generic programming which involves writing code in a way that is independent of any particular type.

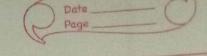
A template is a blue print on formula for creating a generic class on fn.

The library contains like iteration & Olgorithmy e.g. generic gragramming

A have been developed vering template conapt

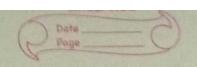
generic method: You can write a single gerunic muthed declaration that can be called with argument of different type. e.g. = class test static <T> void display (T ele) system · out-println (ele. get class ().

get nlame () + "=" fel public static void main (string () a) To weithhalf it is whilens pritical proportion display(11); to trabagger display ("yellow"); Exception handling-The exception handling in Java is one of the powerful mechanism to handle the runtime ever so that normal flow of the application can be maintained.



Types: Checked Exception 2) unchecked Exception 3) exect. Keywords used in exception handling: Try: Jt is used to identify the exception on the block which cause exception must be included in try block.
2) unchecked Exception 3) exect. Keywords used in exception handling: Try: Jt is used to identify the exception on the block which cause exception must be included in try block.
2) unchecked exception 3) exect. Reywords used in exception handling: Try: Jt is used to identify the exception on the block which cause exception must be included in try block.
Reywords used in exception handling: i) Try: Jt is used to identify the exception on the block which cause exception must be included in try block.
Newwords used in exception handling: Try: Jt is used to identify the exception on the block which cause exception must be included in try block.
in try block.
m tig block.
m tig block.
m tig block.
m tig block.
9607 1253 \
ii) catch =
To hondle the concurrent exception
iii) Throw =
It is used the throw the exception
Boulton explicitely:
W) Throws & with walked signature be
It is used to with method. signature to
throw exception.
DE No
v) Finally:
To dose different connection. Java finally
block contain rest of rode.

Syntax : 11 statements 11 throw keyword catch (exception e) Stadement 1 tinally 11 Rest code Algorithm step 1.) Define one class stack as abstract Step 2:) Declare three abstract methods push(), pop() , top() step 3:) Define one method function () which will call all their method based on user's choice. step 4.) @ Define class Instack which extends Stack clay (b) Implement all abstract methods. @ put all the required Runtime exception in try plock 1 ratch block to catch exception if caused



Step 5) @ Define a class char stack which extends stack class

1 Implement all abstract class Creade RuntimeException in try block

@ catch block if exception occurs.

Step 7) Create object & stackTemp of type Intstack. step 8.) call function ()

step 9.) create object of stack of type charstack

step 10.) call function ()

step 11.) stop.

Conclusion:

template provide blueprint for class implementation of excaption handling is used to handle runtime error.

Thus, we have learn't the concept of templade & exception handling.