

Sunbeam Institute of Information Technology Pune,Karad

Java Optional Assignment - 1

Q1. Create Java application for fixed stack & growable stack based on Stack i/f , for storing emp details

Steps

- 1.1 Create Employee class -- id,name,salary, constructor,toString
- 1.2 Stack interface -- push & pop functionality for Emp refs. & declare STACK_SIZE as a constant.
- 1.3 Create implementation class of Stack i/f -- FixedStack (array based)
- 1.4 Create another implementation class of Stack i/f-- GrowableStack (array based)
- 1.5 Create Tester class (Hint : use dynamic method dispatch using interfaces)

Display Menu

Note : Must use 1 switch-case only. You won't need any complex nested control structure

Once user selects either fixed or growable stack , user shouldn't be allowed to change the selection of the stack.

(Hint : null checking)

1 -- Choose Fixed Stack

2 -- Choose Growable Stack

Accept following options only after initial selection.(Hint : null checking)

3 -- Push data

I/P : Accept emp details & store these details in the earlier chosen stack or give error mesg : NO stack chosen !!!

4 --- Pop data & display the same (from the earlier chosen stack or give error mesg : NO stack chosen !!!)

No inputs are required : pop emp details from the top of the stack

5 -- Exit