**import** java.io.\*;

**import** java.util.\*;

**class** TestStack

{

**static** **void** stack\_push(Stack<Integer> stack)

{

**for**(**int** i = 0; i < 5; i++)

{

stack.push(i);

}

}

**static** **void** stack\_pop(Stack<Integer> stack)

{

System.***out***.println("Pop Operation:");

**for**(**int** i = 0; i < 5; i++)

{

Integer y = (Integer) stack.pop();

System.***out***.println(y);

}

}

**static** **void** stack\_peek(Stack<Integer> stack)

{

Integer element = (Integer) stack.peek();

System.***out***.println("Element on stack top: " + element);

}

**static** **void** stack\_search(Stack<Integer> stack, **int** element)

{

Integer pos = (Integer) stack.search(element);

**if**(pos == -1)

System.***out***.println("Element not found");

**else**

System.***out***.println("Element is found at position: " + pos);

}

**public** **static** **void** main (String[] args)

{

Stack<Integer> stack = **new** Stack<Integer>();

*stack\_push*(stack);

*stack\_pop*(stack);

*stack\_push*(stack);

*stack\_peek*(stack);

*stack\_search*(stack, 2);

*stack\_search*(stack, 6);

}

}