1.Write a Java program to append the specified element to the end of a HashSet

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import java.util.HashSet;

public class Main {

public static void main(String args[]) {

// Create a HashSet

HashSet<String> hashSet = new HashSet<>();

// Add some elements to the HashSet

hashSet.add("Apple");

hashSet.add("Banana");

hashSet.add("Orange");

// Display the HashSet before adding the new element

System.out.println("HashSet before appending: " + hashSet);

// Append a specified element

String newElement = "Mango";

hashSet.add(newElement); // Add new element to HashSet

// Display the HashSet after adding the new element

System.out.println("HashSet after appending: " + hashSet);

}

}

Output

HashSet before appending: [Apple, Banana, Orange]

HashSet after appending: [Apple, Banana, Mango, Orange]

2 .Write a program to declare stack.Store 10 elements into it.Remove 4 elements from

stack and display it.

->

import java.util.Stack;

public class Main {

public static void main(String[] args) {

// Create a Stack

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

// Store 10 elements into the stack

for (int i = 1; i <= 10; i++) {

stack.push(i); // Push elements from 1 to 10

}

// Display the stack before removing elements

System.out.println("Stack before removing elements: " + stack);

// Remove 4 elements from the stack

for (int i = 0; i < 4; i++) {

stack.pop(); // Remove the top element

}

// Display the stack after removing elements

System.out.println("Stack after removing 4 elements: " + stack);

}

}

Output

Stack before removing elements: [1, 2, 3, 4, 5, 6, 7, 8, 9, 10]

Stack after removing 4 elements: [1, 2, 3, 4, 5, 6]