

Instructions:

1. Click on File -> Make a copy

Include your IPO Chart with your code in Eclipse IDE: We will discuss and demonstrate this in the computer lab.

IPO CHART

Program name:	Necklace	
INPUT	PROCESS	OUTPUT
Hint: What will the user input?	Hint: What is the program going to do with the input information?	Hint: What will the screen display after user input?
Two single digit numbers	<ol style="list-style-type: none">1. Take the two numbers and add them together.2. If the sum of the numbers has two digits only store the second digit3. Repeat until the original two digits are stored	<ol style="list-style-type: none">1. After the calculations display all the digits calculated until the original digits are displayed

An interesting problem in number theory is sometimes called the “necklace problem.” This problem begins with two single-digit numbers. The next number is obtained by adding the first two numbers together and saving only the ones digit. This process is repeated until the “necklace” closes by returning to the original two numbers. For example, if the starting two

numbers are 1 and 8, twelve steps are required to close the necklace: 1 8 9 7 6 3 9 2 1 3 4 7 1 8
Create a Necklace application that prompts the user for two single-digit integers and then displays the sequence and the number of steps taken. The application output should look similar to: