



CPIT 110

Instructor Manual

For **50** Minutes Lectures

Week 11

10/11/2019 – 14/11/2019

Chapter 5

Loops

This Week Events	<ul style="list-style-type: none">– Lab #8 (Chapter 5 Part 2)
Next Week Events	<ul style="list-style-type: none">– Mid-Term Exam 2 - Part 1 (Week #12)– Mid-Term Exam 2 - Part 2 (Week #13)

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Instructor Manual – Lecture #1 in Week 11

Chapter	5. Loops
Number of Lectures	3 (50 minutes / Lecture)
Lecture	6 of 6
Slides	161 - 227
Date	Sunday 10/11/2019

Week 11	Lecture 6 of 6
	Slides 161 - 227

Topics to Be Covered

- ❖ 5.7. Keywords break and Continue
- ❖ 5.8. Case Study: Displaying Prime Numbers

Learning Objectives

Learning Outcomes	Topics
– To implement program control with break and continue.	5.7. Keywords break and Continue

Exercises

- ❖ 5.7. Keywords break and Continue
 1. What is the keyword break for? What is the keyword continue for? Will the following program terminate? If so, give the output.

<pre>balance = 1000 while True: if balance < 9: break balance = balance - 9 print("Balance is", balance)</pre>	<pre>balance = 1000 while True: if balance < 9: continue balance = balance - 9 print("Balance is", balance)</pre>
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2. The for loop on the left is converted into the while loop on the right. What is wrong? Correct it.

<pre>for i in range(4): if i % 3 == 0: continue sum += i</pre>	<p>Converted → Wrong conversion</p>	<pre>i = 0 while i < 4: if i % 3 == 0: continue sum += i i += 1</pre>
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3. Rewrite the programs TestBreak and TestContinue in Listings 5.11 and 5.12 without using **break** and **continue** statements.
4. After the **break** statement in (a) is executed in the following loop, which statement is executed? Show the output. After the **continue** statement in (b) is executed in the following loop, which statement is executed? Show the output:

<pre>for i in range(4,1): for j in range:(4 ,1) if i * j > 2: break print(i * j) print(i)</pre>	<pre>for i in range(4,1): for j in range:(4 ,1) if i * j > 2: continue print(i * j) print(i)</pre>
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Instructor Manual – Lecture #2 in Week 11

Chapter	Practical Exercises
Number of Lectures	3 (50 minutes / Lecture)
Lecture	1 of 2
Slides	-
Date	Tuesday 12/11/2019

Week 11	Lecture 1 of 2
	Slides -

Topics to Be Covered

حل تمارين المعامل الإضافية من الكتاب من اختياركم ومراجعة أسئلة نماذج الاختبار الدوري الثاني الموجودة في صفحة المقرر.



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Instructor Manual – Lecture #3 in Week 11

Chapter	Practical Exercises
Number of Lectures	3 (50 minutes / Lecture)
Lecture	2 of 2
Slides	-
Date	Thursday 14/11/2019

Week 11	Lecture 2 of 2
	Slides -

Topics to Be Covered

حل تمارين المعامل الإضافية من الكتاب من اختياركم ومراجعة أسئلة نماذج الاختبار الدوري الثاني الموجودة في صفحة المقرر.