**Exercises 3.1: pp 86-89 Exercises 1-85 odd**

**Question#1**

A picture containing screenshot

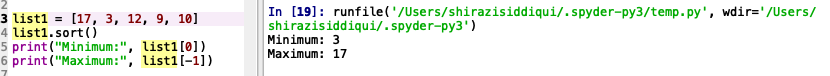
Description automatically generated

**Question#3**

A screenshot of a cell phone

Description automatically generated

**Question#5**

****

**Question#7**

**A close up of a device

Description automatically generated**

**Question#9**

****

**Question#11**



**Question#13**

**A close up of an object

Description automatically generated**

**Question#15**

****

**Question#17**



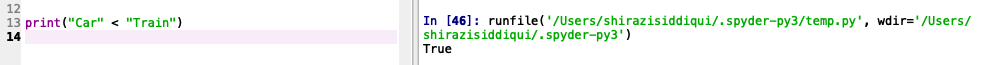
**Question#19**



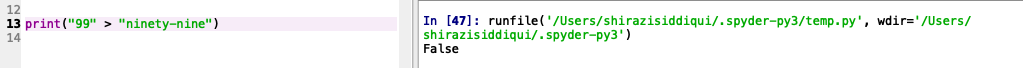
**Question#21**



**Question#23**



**Question#25**



**Question#27**

A close up of a logo

Description automatically generated

**Question#29**

A screenshot of a cell phone

Description automatically generated

**Question#31**

A screenshot of a cell phone

Description automatically generated

**Question#33**

A screenshot of a cell phone

Description automatically generated

**Question#35**

A screenshot of a cell phone

Description automatically generated

**Question#37**

A screenshot of a cell phone

Description automatically generated

**Question#39**

**A close up of a logo

Description automatically generated**

**Question#41**

A screenshot of a social media post

Description automatically generated

**Question#43**

A close up of a logo

Description automatically generated

**Question#45**

**Answer is Equivalent**

A screenshot of a cell phone

Description automatically generated

**Question#47**

**Answer : Not Equivalent**

A screenshot of a cell phone

Description automatically generated

**Question#49**

**Answer : Equivalent**

A screenshot of a cell phone

Description automatically generated

**Question#51**

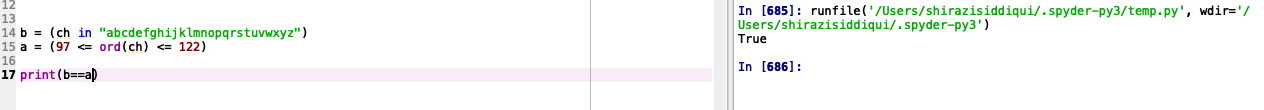
**Answer : Equivalent**

**A screenshot of a cell phone

Description automatically generated**

**Question#53**

**Answer : Equivalent**

****

**Question#55**

**Answer :** a > b is equivalent to the negation of **a <= b**

**Question#57**

**Answer :** (a < b) and (c != d) is equivalent to the negation of **((a >= b) or (c == d))**

**Question#59**

**Answer : a <= b is equivalent to the negation of a > b.**

**Question#61**

(ans== 'Y') or (ans == 'y') or (ans == "Yes") or (ans == "yes")

**Answer: ans in ['Y', 'y', "Yes", "yes"]**

**Question#63**

(year == 2010) or (year == 2011) or (year == 2012) or (year == 2013)

**Answer: 2010 <= year <= 2013**

**Question#65**

(n >= 3) and (n < 9)

**Answer: 3 <= n < 9**

**Question#67**

(n <= 10) and (n > –20)

**Answer: -20 < n <=10**

**In Exercises 69 through 84, determine whether True or False is displayed.**

**Question#69**

**A screenshot of a cell phone

Description automatically generated**

**Question#71**

**A screenshot of a cell phone

Description automatically generated**

**Question#73**

**A screenshot of a social media post

Description automatically generated**

**Question#75**

**A screenshot of a cell phone

Description automatically generated**

**Question#77**

**A screenshot of a cell phone

Description automatically generated**

**Question#79**

**A screenshot of a cell phone

Description automatically generated**

**Question#81**

**A screenshot of a cell phone

Description automatically generated**

**Question#83**

**A screenshot of a cell phone

Description automatically generated**

**Question#85**

**Rewrite the following statement using the chr function instead of escape sequences.**

**print("He said \"How ya doin?\" to me.")**

**A screenshot of a cell phone

Description automatically generated**

**Exercises 3.2 pp 98-104 Exercises 1-43 odd**

**Question#1**

**A screenshot of a cell phone

Description automatically generated**

**Question#3**

**A screenshot of a cell phone

Description automatically generated**

**Question#5**

**A screenshot of a cell phone

Description automatically generated**

**Question#7**

**A screenshot of a cell phone

Description automatically generated**

**Question#9**

**A screenshot of a cell phone

Description automatically generated**

**Question#11**

**A screenshot of a social media post

Description automatically generated**

**Question#13**

**A screenshot of a cell phone

Description automatically generated**

**In Exercises 15 through 18, identify the errors, state the type of each error (syntax, runtime, or logic), and correct the block of code.**

**Question#15**

**﻿Syntax Error: invalid syntax**

**A screenshot of a cell phone

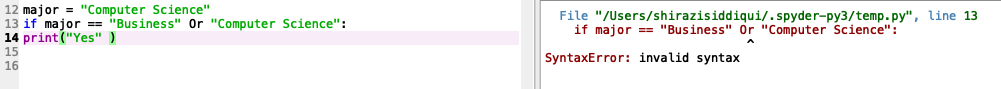
Description automatically generated**

**Corrected block of code :**

****

**Question#17**

**﻿Syntax Error: invalid syntax**

****

**Corrected block of code :**

**A screenshot of a cell phone

Description automatically generated**

**In Exercises 19 through 24, simplify the code.**

**Question#19**

**A screenshot of a cell phone

Description automatically generated**

**Question#21**

**A screenshot of a cell phone

Description automatically generated**

**Question#23**

**A screenshot of a cell phone

Description automatically generated**

**Question#25**

**A screenshot of a cell phone

Description automatically generated**

**Question#27**

**A screenshot of a cell phone

Description automatically generated**

**Question#29**

**A screenshot of a cell phone

Description automatically generated**

**Question#31**

**A screenshot of a cell phone

Description automatically generated**

**Question#33**

**A screenshot of a cell phone

Description automatically generated**

**Question#35**

**A screenshot of a social media post

Description automatically generatedQuestion#37**

**A screenshot of a cell phone

Description automatically generated**

**Question#39**

**A screenshot of a cell phone

Description automatically generated**

**Question#41**

**A screenshot of a cell phone

Description automatically generated**

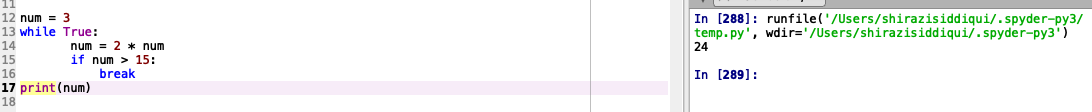
**Question#43**

**A screenshot of a social media post

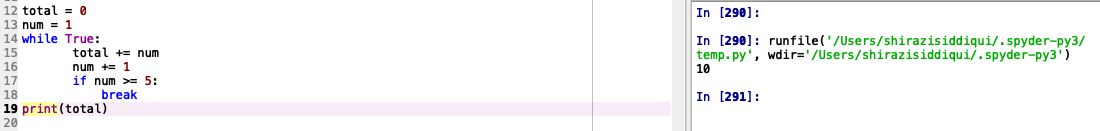
Description automatically generated**

**Exercises 3.3 : pp 111-117 Exercises 1-31 odd**

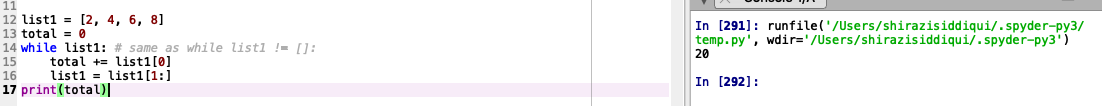
**Question#1**

****

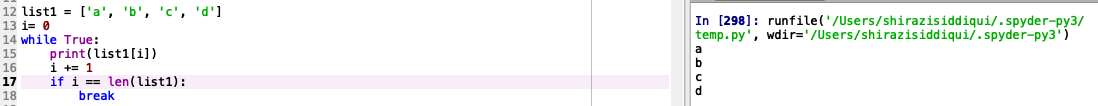
**Question#3**

****

**Question#5**

****

**Question#7**

****

**In Exercises 9 through 12, identify the errors:**

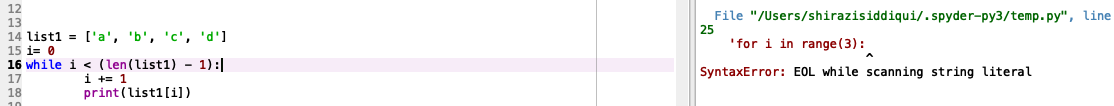
**Question#9**

**Issue : Infinite loop**

****

**Question#11**

**Issue : i should be initialized to -1 in order to iterate over all the elements.**

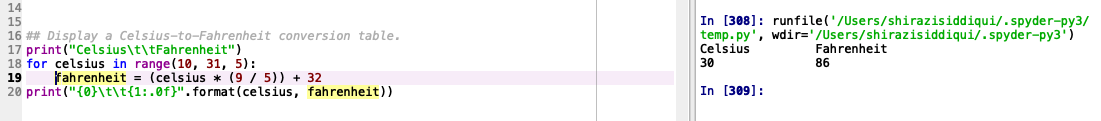
****

**In Exercises 13 and 14, write a simpler and clearer code that performs the same task as the given code.**

**Question#13**

**﻿**

**Question#15**

****

**Question#17**

**A screenshot of a cell phone

Description automatically generated**

**Question#19**

**A screenshot of a cell phone

Description automatically generated**

**Question#21**

**A close up of a white wall

Description automatically generated**

**Question#23**

**A screenshot of a cell phone

Description automatically generated**

**Question#25**

**A screenshot of a cell phone

Description automatically generated**

**Question#27**

****

**Question#29**

**A screenshot of a cell phone

Description automatically generated**

**Question#31**

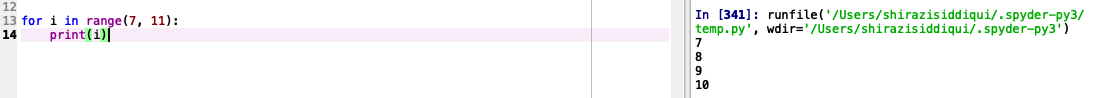
**A screenshot of a cell phone

Description automatically generated**

**Exercises 3.4 (pp 127-136 Exercises 1-83 odd)**

**In Exercises 1 through 8, determine the sequence generated by the range function.**

**Question#1**

****

**Question#3**

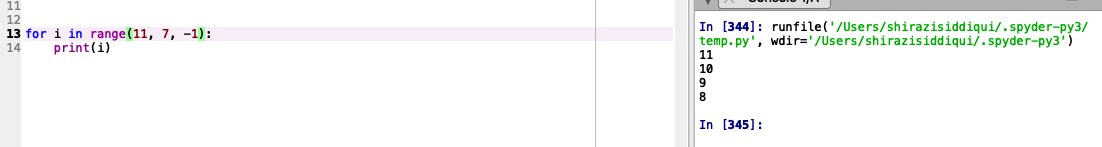
**A close up of a logo

Description automatically generated**

**Question#5**

****

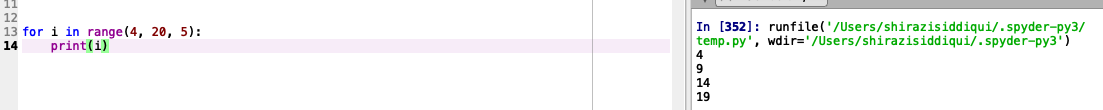
**Question#7**

****

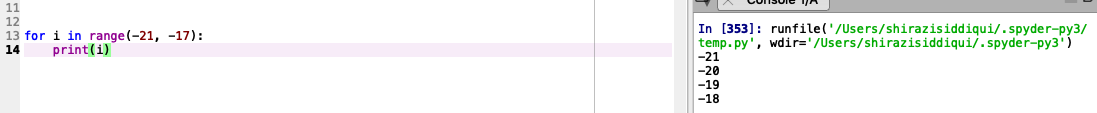
**In Exercises 9 through 16, determine a range function that generates the sequence of**

**numbers.**

**Question#9**

****

**Question#11**

****

**Question#13**

**A screenshot of a cell phone

Description automatically generated**

**Question#15**

**A screenshot of a cell phone

Description automatically generated**

**In Exercises 17 through 40, determine the output displayed.**

**Question#17**

**A screenshot of a cell phone

Description automatically generated**

**Question#19**

**A screenshot of a cell phone

Description automatically generated**

**Question#21**

**A screenshot of a cell phone

Description automatically generated**

**Question#23**

**A screenshot of a cell phone

Description automatically generated**

**Question#25**

**A screenshot of a cell phone

Description automatically generated**

**Question#27**

**A screenshot of a cell phone

Description automatically generated**

**Question#29**

**A screenshot of a social media post

Description automatically generated**

**Question#31**

**A screenshot of a cell phone

Description automatically generated**

**Question#33**

**A screenshot of a cell phone

Description automatically generated**

**Question#35**

**A screenshot of a social media post

Description automatically generated**

**In Exercises 37 and 38, assume that the six lines of the file Numbers.txt contain the data 6, 9, 2, 3, 6, and 4.**

**Question#37**

**A screenshot of a cell phone

Description automatically generated**

**In Exercises 39 and 40, assume that the 50 lines of the file States.txt contain the names of the fifty states in the order they joined the union.**

**Question#39**

**A screenshot of a cell phone

Description automatically generated**

**In Exercises 41 through 46, identify all errors.**

**Question#41**

**A screenshot of a cell phone

Description automatically generated**

**Error :** The range generates no elements because the step argument’s direction is opposite the direction from start to stop.

**Question#43**

**A close up of a logo

Description automatically generated**

**Error :** The print function call is missing parentheses “( )”.

**Question#45**

**A screenshot of a cell phone

Description automatically generated**

**Error :** The range constructor should read range(0, 20) or range(20) because range(20,0) will not generate any values. Also, the print statement must be indented twice so it belongs to the if block.

**In Exercises 47 and 48, rewrite the program using a for loop.**

**Question#47**

**A screenshot of a cell phone

Description automatically generated**

**A screenshot of a social media post

Description automatically generated**

**Simplify the programs in Exercises 49 and 50.**

**Question#49**

**Given:**

**A screenshot of a cell phone

Description automatically generated**

**Simplified:**

**A screenshot of a cell phone

Description automatically generated**

**In Exercises 51 through 65, write a program to carry out the stated task.**

**Question#51**

**A screenshot of a cell phone

Description automatically generated**

**Question#53**

**A screenshot of a cell phone

Description automatically generated**

**Question#55**

**A screenshot of a cell phone

Description automatically generated**

**Question#57**

**A screenshot of a social media post

Description automatically generated**

**Question#59**

**A screenshot of a cell phone

Description automatically generated**

**Question#61**

**A screenshot of a cell phone

Description automatically generated**

**Question#63**

**A screenshot of a cell phone

Description automatically generated**

**Question#65**

**A screenshot of a cell phone

Description automatically generated**

**Question#67**

**A screenshot of a cell phone

Description automatically generated**

**Question#69**

**A screenshot of a cell phone

Description automatically generated**

**Question#71**

**A screenshot of a cell phone

Description automatically generated**

**Question#73**

**A screenshot of a cell phone

Description automatically generated**

**Question#75**

**A screenshot of a cell phone

Description automatically generated**

**Question#77**

**A close up of a logo

Description automatically generated**

**Question#79**

**A screenshot of a cell phone

Description automatically generated**

**Question#81**

**A screenshot of a cell phone

Description automatically generated**

**Question#83**

**A screenshot of a cell phone

Description automatically generated**

**pp 139-142  Choose 4 programming projects to complete**

1. **Car Loan :**

A screenshot of a cell phone

Description automatically generated

1. **Quadratic Equation**

A screenshot of a cell phone

Description automatically generated

1. **Caffeine Absorption**

**﻿A screenshot of a social media post

Description automatically generated**

**8. Palindrome**

**A screenshot of a cell phone

Description automatically generated**