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| Worksheet IV |

**1) Write the Python code to print the following outputs. Assume that 2015 is entered as shown in the example.**



**2) Rewrite the above Python code using While-Loop.**

**3) Write the Python code that asks for your year of birth and print the outputs as shown in the examples below.**





 Hint: use range(start, end, -1) to start the range from a higher value down to a lower value with a

 step -1. For example, range(5, 1, -1) is equivalent to 5, 4, 3, 2

**4) Rewrite the Python code in exercise 3) using while-Loop.**

**5) Do the following two Python for-loop codes produce the same output? If the answer is NO, correct the codes in the second for-loop to produce the same output.**



**6) What does the following Python code print?**



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**7) Modify if-else condition in line #3, in exercise 6), to print 3 and 6 only.**

**8) Modify if-else condition line #3, in exercise 6), to print a number that is higher than or equal to 3, but less than 7.**

**9) Modify if-else condition in line #3, in exercise 6), to print 5 and 9 only.**

1**0) Modify the following Python code in 9) to print a name from the name\_list if the third character of the name is alphabet ‘o’.**



The outputs should be ‘George’ and ‘Geo’.



The above for-loop will go through each character in the variable, name. It then checks if a character ‘h’ appears in the variable, name. If yes, it prints that name on the screen.

**11) Based on the above sample Python code, modify the Python code in 10) to include the above sample code so that the code prints me in name\_list that contains character ‘e’.**

**12)**



* **What does the above Python code do?**
* **What is the purpose of the built-in function isinstance(x, int)? (Google to find the answer)**

**13) Modify the above Python code to print ‘Two’, ‘Three’ and ‘Seven’ on the screen.**

**14) Based on the following Python code,**

 

* Modify the code to print 9 rows each with values 1 to 9.



**15) Modify the code again to print odd rows (rows no. 1, 3, 5, 7 and 9) with even values (2, 4, 6, 8) for each low.**



**15) Modify the code again to print rows (1, 5 and 9) with values (1, 5, 9) for each low.**

