**DAILY ASSESSMENT FORMAT**

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| **Date:** | **23/July/2020** | **Name:** | **Prashantha naik** |
| **Course:** | **Python workshop** | **USN:** | **4al17ec074** |
| **Topic:** | **How to build Pythonic code in Iteration and strings** | **Semester & Section:** | **6th b** |
| **GitHub Repository:** | **prashanth\_course** |  |  |

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| **SESSION DETAILS** |
| **Image of session** |
| **Report – Report can be typed or hand written for up to two pages.**  **Program for prime number -bad code**  **The number 25 is not prime**  **i=25**  **for x in range(2, i//2+1):**  **if i%x==0:**  **print("The number {} is not prime".format(i))**  **break**  **if x ==i//2:**  **print ("{} is a prime number".format(i))**  **Using Unpacking to Write Concise Code**  **a, b = 2, 'my-string'**  **print(a)**  **print(b)**  **Bad unpacking**  **x = (1, 2, 4, 8, 16)**  **a = x[0]**  **b = x[1]**  **c = x[2]**  **d = x[3]**  **e = x[4]**  **print(a, b, c, d, e)**  **Using Chaining to Write Concise Code**  **x = 4**  **print(x >= 2 and x <= 8)**  **Finding the factorial of a number**  **Enter number:5**  **Factorial of the number is:**  **120**  **#Python Program to find the factorial of a number using loop.**  **n=int(input("Enter number:"))**  **fact=1**  **while(n>0):**  **fact=fact\*n**  **n=n-1**  **print("Factorial of the number is: ")**  **print(fact)**  **Program for multiples of 2 of a list without list comprehension**  **[2, 4, 6, 8, 10, 12]**  **x=[1, 2, 3, 4, 5, 6]**  **result = []**  **for idx in ran**  **More Pythonic program of 3 lines!**  **Enter no5**  **120**  **from functools import reduce**  **sequences = [x for x in range(1,int(input('Enter no'))+1)]**  **product = reduce(lambda x, y: x\*y, sequences)**  **print(product)**  **Number and its square as Tuple for a range**  **l\_range=int(input("Enter the lower range:"))**  **u\_range=int(input("Enter the upper range:"))**  **a=[(x,x\*\*2) for x in range(l\_range,u\_range+1)]**  **print(a)** |