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**Python Workshop Series**

**Department of Computer Science – OUSL**

**Activity 05**

The activity given is as follows.

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Write a Python program that creates a multiplication table for a given number and stores the results in an array. The program should:

1. Ask the user to input a number for which the multiplication table will be created.
2. Use an array to store the results of the multiplication table from 1 to 10.
3. Display the array and print each multiplication result in a readable format.

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1. The number to input must be taken. Code goes follow.

**input\_number = input("the number: ")**

1. A way to stop the program must be set up.

**if input\_number == 'q'or input\_number =='Q':**

**break**

1. One to ten consecutive numbers are created and stored in an array.

**elif input\_number.isdigit():**

**one\_to\_ten\_array = [i for i in range(1,11)]**

1. The input number is stored in an array ten times.

**input\_number\_array = [int(input\_number) for j in range(1,11)]**

1. Multiplication is performed using above two arrays and is assigned into another array.

**multiplication = [one\_to\_ten\_array[k]\*input\_number\_array[k] for k in range(0,10)]**

1. The readable format is done using the following code.

**for p in range(0,10):**

**if p == 0:**

**print("The Readable Math Table\n---------------------------------------------")**

**print(f"{one\_to\_ten\_array[p]} x {input\_number\_array[p]} = {multiplication[p]}\n")**

**Dear sir/madam, please visit repositories for more information:**

<https://github.com/loachana/Python_Workshop_Series_OUSL.git>