Python Assignment – I

Instructions

- **All programs should be properly tested.**
- **Create the python files in a folder. Folder name should be your Employee Id**
- **Create a file with question number. For example – for first question's file name should be 1.py**

1. Write a Python program to print the following string in a specific format (see the output).

   Sample String : "Twinkle, twinkle, little star, How I wonder what you are! Up above the world so high, Like a diamond in the sky. Twinkle, twinkle, little star, How I wonder what you are"

   Output :

```
Twinkle, twinkle, little star,
      How I wonder what you are!
          Up above the world so high,
           Like a diamond in the sky.
Twinkle, twinkle, little star,
       How I wonder what you are
```

2. Write a Python program which accepts the radius of a circle from the user and compute the area.

   r = 1.1

   Area = 3.8013271108436504

3. Write a Python program to accept a filename from the user and print the extension of that.
4. Write a Python program that accepts an integer (n) and computes the value of n+nn+nnn

   Sample value of n is 5

   Expected Result : 615

5. Write a Python program to check whether a specified value is contained in a group of values.

   Test Data :

   3 -> [1, 5, 8, 3] : True

   -1 -> [1, 5, 8, 3] : False

6. Write a Python program to print all even numbers from a given numbers list in the same order and stop the printing if any numbers that come after 237 in the sequence.

   Sample numbers list :

```
numbers = [
386, 462, 47, 418, 907, 344, 236, 375, 823, 566, 597, 978, 328, 615, 953,
                                                        345,
399, 162, 758, 219, 918, 237, 412, 566, 826, 248, 866, 950, 626, 949, 687,
                                                        217,
815, 67, 104, 58, 512, 24, 892, 894, 767, 553, 81, 379, 843, 831, 445, 742,
                                717,958,743, 527]
```

7. Write a Python program that will return true if the two given integer values are equal or their sum or difference is 5.
8. Write a Python program to display your details like name, age, address in three different lines.
9. Write a Python program to solve (x + y) * (x + y).
10. Write a Python program to print out a set containing all the colors from color_list_1 which are not present in color_list_2.

    Test Data :

    color_list_1 = set(["White", "Black", "Red"])

    color_list_2 = set(["Red", "Green"])

    Expected Output :

    {'Black', 'White'}