Assignment #10

1. Create a python program that will create a text file called **NameInfo.txt** that contains the names, addresses, and phone numbers of ten (10) people. For each person the name, address, and phone number should be written to separate lines in the text file.

When complete the text file **NameInfo.txt** should look similar to the following:

```
Johnny Horton
234 Cold Road, Yellowknife, NWT
(613) 450-9802
Jimmy Smith
123 Any Street
(708) 245-6574
James Dean
56 King Road, Indiana, Indiana
(518) 675-3456
Mary Who
24 Queen Street, London, Ont.
(213) 654-9805
Samantha Green
345 Yourg Place, Toronto, Ont.
(705) 876-0325
Julie Beaute
345 Cannidale Place, London, Ont.
(905) 543-9876
Joanie Harrigan
77 Rock garden Road, Ingersoll, Ont.
(416) 678-4567
Billy Smith
123 Red Circle, Boston, Mass.
(780) 456-3456
James Gunner
67 HillBilly Road, Green, Delaware
(786) 980-6754
Helen Arm
67 Birr Road, Lucan, Ont.
(519) 227-0987
```

2. Create a Python program that opens and reads the file **NameInfo.txt**, that was created in Assign 10-1 and prints the information for each person in a neat chart on the screen.

Your output should look as follows:

NameInfo.txt Contents			
Name	Address	Phone Number	
Johnny Horton	234 Cold Road, Yellowknife, NWT	(613) 450-9802	
Jimmy Smith	123 Any Street	(708) 245-6574	
James Dean	56 King Road, Indiana, Indiana	(518) 675-3456	
Mary Who	24 Queen Street, London, Ont.	(213) 654-9805	
Samantha Green	345 Yourg Place, Toronto, Ont.	(705) 876-0325	
Julie Beaute	345 Cannidale Place, London, Ont.	(905) 543-9876	
Joanie Harrigan	77 Rock garden Road, Ingersoll, Ont.	(416) 678-4567	
Billy Smith	123 Red Circle, Boston, Mass.	(780) 456-3456	
James Gunner	67 HillBilly Road, Green, Delaware	(786) 980-6754	
Helen Arm	67 Birr Road, Lucan, Ont.	(519) 227-0987	

- 3. Create a file called "Marks.txt". The program will generate 500 Student marks (between 30 and 100) and write them to the file.
- 4. Create a program that will Open and read the file "Marks.txt". As it reads each individual mark the program will also do the following:
 - Store the marks in 1 of 2 files "Pasess.txt" or "Failures.txt"
 - Count and print how many marks were stored in each file
 - Calculate and print the average of marks were stored in each file

- 5. Create a file which contains the Social Insurance Number (SIN) and the yearly income of several 20 Canadian individuals. Call the file "SIN.txt"
- 6. Create a program that reads "SIN.txt" and for each individual, determine the income tax bracket that they belong in and then calculate the amount of their income tax. Keep track of the total amount of income, the total amount of income tax, the number of individuals in each bracket.

Canadian Tax Brackets 2014 – Canada Federal Personal Income Tax Brackets Below

Tax	Description	
Bracket		
Α	15% on the first \$43,561 of taxable income	
В	22% on the next \$43,562 of taxable income (on the portion of taxable income	
	between \$43,562 and \$87,123)	
С	26% on the next \$47,930 of taxable income (on the portion of taxable income	
	between \$87,124 and \$135,054)	
D	29% of taxable income over \$135,054	

Your program's output should look as follows:

```
Income Tax 2014
Social Insurance Number Income Tax Bracket

478-234-987 41234 A

432-211-157 45000 7
                                                             Income Tax
                                 41234 A
45899 B
243900 D
35845 A
                                                                    6185
       432-211-157
                                                                   7049
       444-522-631
401-998-900
                                                                 60145
                                                                   5377
The total income is:
The total income tax is:
                                 $
                                      366878
                                         78756
Number of Individuals in Bracket A: 2
Number of Individuals in Bracket B: 1
Number of Individuals in Bracket C: 0
Number of Individuals in Bracket D:
```

7. Create a program that will allow the user to enter the teams that are playing in the weekly NFL games.

Save as: NFLWeeklyGames.py

Your output should look as follows:

The text file **NFLWeek13.txt** would contain the following information:

Colts	Jaguars
Texans	Titans
Patriots	Chargers
Bills	Raiders
Ravens	Bears
Buccaneers	Falcons
Steelers	Cowboys
Browns	Seahawks
Panthers	Redskins
Bengals	Cardinals
Broncos	Giants
Jets	Eagles
Lions	49ers
Vikings	
Packers	
Dolphins	

8. Create a program that uses the information in the weekly NFL games text file created in #7 above, to create another text file that keeps the scores of the games.

Save as: NFLWeeklyGamesScores.py

Your output should look as follows:

```
Weekly NFL Games
-------
This program creates a file that will store the scores of the
NFL games played on a weekend.

Enter the name of the file with the team names: NFLWeek6.txt
Enter the name of the file that will store the scores: NFLWeek6Scores.txt

Score for Game 1:
Colts: 24
Texans: 21
Score for Game 2:
Patriots: 14
Bills: 17
:
:
:
:
Score Game 15:
Eagles: 27
49ers: 13

Thank-you for using this program.
```

The text file **NFLWeek13Scores.txt** would contain the following information:

```
Colts
24
Texans
21
Patriots
14
Bills
17
:
:
Eagles
27
49ers
13
```