Week 3 Lab Exercise

1. Write a Python program that accepts a word from the user and reverse it.
2. Write a Python program to print alphabet pattern 'Z'.
3. Write a Python program to calculate a dog's age in dog's years.

*Note: For the first two years, a dog year is equal to 10 human years. After that, each dog year equals 4 human years.*

*Expected Output:*

*Input a dog's age in human years: 15*

*The dog's age in dog's years is 72*

1. Write a Python program to check a string represent an integer or not.
2. Write a Python program that reads two integers representing a month and day and prints the season for that month and day.

6. Write a Python program to construct the following pattern, using a nested loop number.

*Expected Output:*

*1*

*22*

*333*

*4444*

*55555*

*666666*

*7777777*

*88888888*

*999999999*

7. Write a Python program to check the validity of password input by users.

*Validation :*

* *At least 1 letter between [a-z] and 1 letter between [A-Z].*
* *At least 1 number between [0-9].*
* *At least 1 character from [$#@].*
* *Minimum length 6 characters.*
* *Maximum length 16 characters.*

8. Write a Python program to find numbers between 100 and 400 (both included) where each digit of a number is an even number.

The numbers obtained should be printed in a comma-separated sequence.

9. Write a Python program that accepts a string and calculate the number of digits and letters.

*Sample Data : Python 3.2*

*Expected Output :*

*Letters 6*

*Digits 2*

10. Write a Python program to get the Fibonacci series between 0 to 50.

*Note : The Fibonacci Sequence is the series of numbers :*

*0, 1, 1, 2, 3, 5, 8, 13, 21, ....*

*Every next number is found by adding up the two numbers before it.*