Final Assessment Test -2

Q1: Demonstrate the usage of @classmethod, @staticmethod and @property, each with an example.

Q2: Write a program to display the below shape



Q3: Write a program to display the numbers in the below pattern:

```
01 02 03 04 05
14 15 16 17 06
13 20 19 18 07
12 11 10 09 08
```

Q4: Write a program to display the prime numbers between 0 and 100. Among them, if the 5th and 6th prime numbers are the first two fibonacci numbers, what is the 7th fibonacci number

Q5: write a class to implement the double linked list?

Q6: Write a class with methods, to check whether a given year is leap year, or not.

HINT: A leap year is exactly divisible by 4 except for century years (years ending with 00). The century year is a leap year only if it is perfectly divisible by 40 0. For example,

2017 is not a leap year 1900 is a not leap year 2012 is a leap year 2000 is a leap year