1. Display Fibonacci Series upto 10 terms
2. Display numbers at the odd indices of a list
3. Print a list in reverse order
4. Your task is to count the number of different words in this text

   string = """ ChatGPT has created this text to provide tips on creating interesting paragraphs. First, start with a clear topic sentence that introduces the main idea. Then, support the topic sentence with specific details, examples, and evidence. Vary the sentence length and structure to keep the reader engaged. Finally, end with a strong concluding sentence that summarizes the main points. Remember, practice makes perfect! """
5. Write a function that takes a word as an argument and returns the number of vowels in the word
6. Iterate through the following list of animals and print each one in all caps.

   animals=['tiger', 'elephant', 'monkey', 'zebra', 'panther']
7. Iterate from 1 to 15, printing whether the number is odd or even
8. Take two integers as input from user and return the sum

In [9]:
```python
#1 Display Fibonacci Series upto 10 terms

first_number = 0
second_number = 1

i = 0

while i <= 10:
    if i <= 0:
        print('the fibbonacchi number 1 is',first_number)
        i = i+1
    else:
        fibbonacci_number = first_number + second_number
        print('the fibbonacci number',i+1,"is",fibbonacci_number)

        first_number = second_number
        second_number = fibbonacci_number
        i = i+1
```

```
the fibbonacchi number 1 is 0
the fibbonacci number 2 is 1
the fibbonacci number 3 is 2
the fibbonacci number 4 is 3
the fibbonacci number 5 is 5
the fibbonacci number 6 is 8
the fibbonacci number 7 is 13
the fibbonacci number 8 is 21
the fibbonacci number 9 is 34
the fibbonacci number 10 is 55
the fibbonacci number 11 is 89
```

```python
In [1]:  #2.Display numbers at the odd indices of a list
         List1 = [0,1,2,3,4,5,6,7,8,9,10]

         for i in List1:
             #odd indices when divided by 2 the remainder will not be equal to zero.
             if i%2 != 0:
                 print("the number at odd indice",i,"is",i)
```

```
the number at odd indice 1 is 1
the number at odd indice 3 is 3
the number at odd indice 5 is 5
the number at odd indice 7 is 7
the number at odd indice 9 is 9
```

```python
In [2]:  #3.Print a list in reverse order
         Numbers = [1,2,3,4,5,6,7,8,9]

         reverse_list = Numbers[-1:-10:-1]

         print(reverse_list)
```

```
[9, 8, 7, 6, 5, 4, 3, 2, 1]
```

```python
In [3]:  #4Your task is to count the number of different words in this text

         #string = """ ChatGPT has created this text to provide tips on creating int
         string = "ChatGPT has created this text to provide tips on creating interes
         string_list = string.split(" ")

         count = 0

         for i in string_list:
             count = count + 1
         print("number of words in the string:",count)

         different_words_count = 0

         for x in range(62):
             temp = string_list[x]
             repeat = 0

             #iterating over the previous elements in the list to check whether there
             for z in range(x):
                 if temp == string_list[z]:
                     repeat = 1
             if repeat == 1:
                 different_words_count = different_words_count
             else:
                 different_words_count = different_words_count + 1
         print("number of different words:",different_words_count)
```

```
number of words in the string: 62
number of different words: 47
```

```python
In [4]: #5Write a function that takes a word as an argument and returns the number
        def vowel_counter(a):
            vowel = 0
            word_list = list(a)
            for letter in word_list:
                if letter.lower() == "a":
                    vowel = vowel+1
                elif letter.lower() == "e":
                    vowel = vowel+1
                elif letter.lower() == "i":
                    vowel = vowel+1
                elif letter.lower() == "o":
                    vowel = vowel+1
                elif letter.lower() == "u":
                    vowel = vowel+1
            return(vowel)
```

```python
In [5]: vowel_counter("hello")
```

```
Out[5]: 2
```

```python
In [6]: #6Iterate through the following list of animals and print each one in all c

        #animals=['tiger', 'elephant', 'monkey', 'zebra', 'panther']

        animals=['tiger', 'elephant', 'monkey', 'zebra', 'panther']

        for animal in animals:
            print(animal.upper())
```

```
TIGER
ELEPHANT
MONKEY
ZEBRA
PANTHER
```

In [7]: #7.Iterate from 1 to 15, printing whether the number is odd or even

```python
for i in range(1,16):
    if i%2 == 0:
        print (" the number",i,"is an even integer")
    else:
        print("the number",i,"is an odd integer")
```

the number 1 is an odd integer
 the number 2 is an even integer
the number 3 is an odd integer
 the number 4 is an even integer
the number 5 is an odd integer
 the number 6 is an even integer
the number 7 is an odd integer
 the number 8 is an even integer
the number 9 is an odd integer
 the number 10 is an even integer
the number 11 is an odd integer
 the number 12 is an even integer
the number 13 is an odd integer
 the number 14 is an even integer
the number 15 is an odd integer

In [8]: #8.Take two integers as input from user and return the sum

```python
a = input("please provide input for the fist integer:")
b = input("please provide input for the second integer:")

total = int(a) + int(b)

print("the sum of two integers is :",total)
```

please provide input for the fist integer:1
please provide input for the second integer:2
the sum of two integers is : 3