

Check if a number is Odd or even number

```
In [1]: 1 n = int(input("Enter the number"))
        2 if(n%2==0):
        3     print("Even Number is ",n);
        4 else:
        5     print("odd Number is ",n)
```

Enter the number6
Even Number is 6

Print Fibonacci Series

```
In [4]: 1 n = int(input("Enter the number of element"))
        2 n1=0
        3 n2=1
        4 print(n1,n2,end=" ")
        5 for i in range(n-2):
        6     n3=n1+n2;
        7     print(n3,end=" ")
        8     n1=n2
        9     n2=n3
        10
        11
```

Enter the number of element5
0 1 1 2 3

Swap 2 numbers with or without using 3rd variable

```
In [5]: 1 n1=int(input("Enter the first number"))
        2 n2=int(input("Enter the second number"))
        3 n3=0
        4 print("Befor the swaping",n1,n2)
        5 n3=n1
        6 n1=n2
        7 n1=n3
        8 print("After the swaping",n1,n2)
```

Enter the first number3
Enter the second number4
Befor the swaping 3 4
After the swaping 3 4

Find Sum of digits of a number

```
In [1]: 1 n = int(input("Enter the sum of digit" ))
2 sum1=0
3
4 while(n > 0):
5     rem = n % 10
6     sum1= sum1 + rem
7     n = int(n / 10)
8
9 print("Digit of Sum",sum1)
```

Enter the sum of digit123
Digit of Sum 6

Reverse a string without using inbuilt sort method

```
In [2]: 1 string = input("Entewr the string")
2 string2 = ""
3 for i in range(len(string)-1,-1,-1):
4     string2=string2+string[i]
5 print("Revers String",string2)
6
```

Entewr the stringNeeraj
Revers String jareeN

Reverse words in string

```
In [16]: 1 string=input("Enter the string:- ")
2 print("Before reverse string:- ",string)
3 word=string.split(" ")
4 words=list(reversed(word))
5 string1=" ".join(words)
6 print("After reverse string:- ",string1)
7
8
```

Enter the string:- Reverse words in string
Before reverse string:- Reverse words in string
After reverse string:- string in words Reverse

Find if 2 strings are Anagram

In [66]:

```

1 str1="dcba"
2 str2="abcd"
3 str1=list(str1)
4 str2=list(str2)
5 if(len(str1)!=len(str2)):
6     print("Both string is not Anagram")
7 else:
8     sortFirst1(str1)
9     sortSecond(str2)
10    def sortFirst1(str1):
11        for i in range(len(str1)):
12            for j in range(i+1,len(str1)):
13                if(str1[i]>str1[j]):
14                    temp=str1[i]
15                    str1[i]=str1[j]
16                    str1[j] = temp
17        return str1
18    def sortSecond(str2):
19        for i in range(len(str2)):
20            for j in range(i+1,len(str2)):
21                if(str2[i]>str2[j]):
22                    temp=str2[i]
23                    str2[i]=str2[j]
24                    str2[j] = temp
25        return str2
26    if(str1==str2):
27        print("both string is anagram")
28

```

both string is anagram

Find if 2 strings are Palindrome

In [71]:

```

1 str1=input("Enter the first String ")
2 str2=input("Enter the second String ")
3 str3=""
4 str4=""
5 for i in range(len(str1)-1,-1,-1):
6     str3= str3+str1[i]
7 if(str1==str3):
8     print("Palindrome:-",str1);
9 for i in range(len(str2)-1,-1,-1):
10    str4= str4+str2[i]
11 if(str4==str2):
12    print("paindrome:- ",str2);
13
14

```

Enter the first String aca
Enter the second String ada
Palindrome:- aca
paindrome:- ada

In []:

1

In []:

1

In []:

1