In [1]:
```python
#Q1 Create a python program to read a year from user, find whether that ye
#year: - It should be divisible by four.
#If it's a century year, it should be divisible by 400 also.)
year = int(input("Enter the year : "))
if year % 4 == 0 and year % 100 != 0 or year % 400 == 0:
    print ("Leap")
else:
    print ("Not Leap")
```

```
Enter the year : 2204
Leap
```

In [2]:
```python
#Q2 Create a python program to read a number from user, and check whether
#proper message back to user.
n = input("Enter the Number:")
number_str = str(n)
reversed_number = number_str[::-1]
if number_str == reversed_number:
    print("It is palindrome!")
else:
    print("It is not a palindrome!")
```

```
Enter the Number:543345
It is palindrome!
```

In [3]:
```python
#Q3 Create a python program to demonstrate the use of while loop in python
#Addition of first 10 Natural numbers
counter = 1
add = 0
while counter <= 10:
    add = add + counter
    counter = counter + 1
else:
    print('Addition = ',add)
```

```
Addition =  55
```

In [4]:
```python
#Q4 Create a python program to demonstrate the use of string functions.
text = "  Hello, This is Python Practical 1!  "
print("Original text",text )

# 1. Uppercase
uppercase = text.upper()
print("Uppercase: ", uppercase)

# 2. Lowercase
lowercase = text.lower()
print("Lowercase: ", lowercase)

# 3. Split
split_text = text.split(",")
print("Split text: ", split_text)

# 4. Startswith
starts_with = text.startswith("Hello")
print("Starts with 'Hello': ", starts_with)

# 5. Endswith
ends_with = text.endswith("World!  ")
print("Ends with 'World! ': ", ends_with)

# 6. Find
find = text.find("Python")
print("Word found at location : ",find)

# 7. Replace
replace = text.replace("Python","PDS")
print("Sentence after replacing the word : ",replace)

```

```
Original text    Hello, This is Python Practical 1!
Uppercase:    HELLO, THIS IS PYTHON PRACTICAL 1!
Lowercase:    hello, this is python practical 1!
Split text:  ['  Hello', ' This is Python Practical 1!  ']
Starts with 'Hello':  False
Ends with 'World! ':  False
Word found at location :  17
Sentence after replacing the word :    Hello, This is PDS Practical 1!
```

In [5]:

```python
#Q5 Write a program to accept 'n' numbers from user store in list. Separa
arr=[]  #Creating Empty List
even=[]
odd=[]
n = int(input('How many elements?'))

for x in range(n):
    num=int(input('Enter elements of list:'))
    arr.append(num)

print('List elements are',arr )
lst=[]
for i in arr:
    cnt=arr.count(i)
    lst.append(cnt)
print(lst)
for i in arr:
    if i%2==0:
        even.append(i)
    else:
        odd.append(i)
print("Even",even)
print("Odd",odd)
```

```
How many elements?3
Enter elements of list:2
Enter elements of list:3
Enter elements of list:1
List elements are [2, 3, 1]
[1, 1, 1]
Even [2]
Odd [3, 1]
```