In [ ]:

```
WEEK 3: Assignment
Q1.Calculate the Salary using Python Programming

Read the question carefully and follow the input and output format.

Karen got salary for this month and she spends 20% of her salary for food, 10% of her salar

Input and Output Format : First line of input consists of an integer, salary. Next line cor
which is saving.
 1. Print "Salary too large" when salary is greater than 10000.
 2. Print "Shifts too small" when the shift is less than 0.
 3. Print "Salary too small" when the salary is less than 0.
Include a function named calculateSal(salary,shifts)  to calcuate salary and print saving.

- Sample Input 1:
  7000
  5
  Sample Output 1:
  4200
- Sample Input 2:
  80000
  Sample Output 2:
  Salary too large
- Sample Input 2:
  6000
  -1
  Sample Output 2:
  Shift too small
```

In [1]:

```
def sal(salary,shifts):
    if salary>8000:
        print("Salary too large")
    elif shifts<0:
        print("Shifts too small")
    elif salary<0:
        print("Salary too small")
    else:
        savings=int((salary*0.5)+(salary*0.02*shifts))
        print(savings)
sal(7000,5)
sal(80000,0)
sal(6000,-1)
```

```
4200
Salary too large
Shifts too small
```

In [ ]:

```
Q2.write python code to read n as integer,from STDIN. For all non-negative integers i<n ,pr

Example
The list of non-negative integers that are less than n=3 is[0,1,2]. Print the square of eac
0
1
4

Input Format
The first and only line contains the integer,n .
Output Format
Print n lines, one corresponding to each i .


Sample Input
5
Sample Output
0
1
4
9
16
```

In [9]:

```
n=int(input("Enter the number: "))
for i in range(0,n):
    print(i**2)
```

```
Enter the number: 5
0
1
4
9
16
```

In [ ]:

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Q3.An extra day is added to the calendar almost every four years as February 29, and the da

In the Gregorian calendar, three conditions are used to identify leap years:
The year can be evenly divided by 4, is a leap year, unless:
The year can be evenly divided by 100, it is NOT a leap year, unless:
The year is also evenly divisible by 400. Then it is a leap year.
This means that in the Gregorian calendar, the years 2000 and 2400 are leap years, while 18

Task
Given a year, determine whether it is a leap year. If it is a leap year, return the Boolean

Note that the code stub provided reads from STDIN and passes arguments to the is_leap funct

Input Format
Read , the year as integer to test.
Output Format
The function must return a Boolean value (True/False)

Sample Input
1990
Sample Output
False
```

In [1]:

```
n=int(input("Enter the number: "))
if n%4==0 and n%100!=0 or n%400==0:
    print("leap year")
    print(bool(n))
else:
    print("false")
```

```
Enter the number: 1900
false
```