**Programs on Operators**

1. Create a program that has two parameters namely name and their age. Print out a message addressed to them that tells them the year that they will turn 100 years old.

**input:**

What is your name: supreetha

How old are you: 29

Output:

supreetha will be 100 years old in the year 2091

1. N students take K apples and distribute them among each other evenly. The remaining (the undivisible) part remains in the basket. How many apples will each single student get? How many apples will remain in the basket?The program reads the numbers N and K. It should print the two answers for the questions above.

**Input:**

N=6

K=50

**Output:**

No. of apples each student will get=8

Remaining apples=2

1. Write a program to calculate the distance between two points.

**input:**

x1=21

y1=4

x2=5

y2=6

output:

16.1245154965971

1. Given two timestamps of the same day: a number of hours, minutes and seconds for both of the timestamps. The moment of the first timestamp happened before the moment of the second one. Calculate how many seconds passed between them.

**Input:**

Hour1=1

Min1=2

Sec1=30

Hour2=1

Min2=3

Sec2=20

**Output:**

Secs=50

1. Given a 4-digit integer number, display the individual digits & also compute the sum of digits.

**input:**

Input a four digit numbers: 3456

Output:

First digit=3

Second digit=4

Third digit=5

Fourth digit=6

The sum of digits in the number is 18

1. Swap the contents of two memory locations
2. using temporary variable.
3. without using temporary variable.

**Input:**

x=5

y=10

**Output:**

The value of x after swapping: 10

The value of y after swapping: 5

7. Program to

1. Convert temperature in celsius to fahrenheit
2. Convert temperature in fahrenheit to celsius

**input(a)**

Celsius=37.5

**Output(a):**

37.5 degree Celsius is equal to 99.5 degree Fahrenheit

**input(b)**

Fahrenheit=99.5

**Output(b):**

99.5 degree Fahrenheit is equal 37.5 degree Celsius

1. Given the distance between 2 cities in kilometers. Write a Python program convert it into meters, centimeters, feet and inches and display the result.

**Input:**

Distance in kilometres = 5

**Output:**

Distance in metres = 5000.0

Distance in centimetres = 500000.0

Distance in feet = 16404.2

Distance in inches = 196850.5

1. A school decided to replace the desks in three classrooms. In Each desk two students can sit. Given the number of students in each class, print the smallest possible number of desks that can be purchased. The program should read three integers: the number of students in each of the three classes, a, b and c respectively.

**Input:**

A=20

B=21

C=22

Output: No. of benches for A=10

No. of benches for B=11

No. of benches for C=11

1. [Given the integer N - the number of seconds that is passed since midnight - how many full hours and full minutes are passed since midnight? The program should print two numbers: the number of hours (between 0 and 23) and the number of minutes (between 0 and 1339). For example, if N = 3900, then 3900 seconds have passed since midnight. Therefore, the time now is 1:05am. So the program should print 1 65 - 1 full hour is passed since midnight, 65 full minutes passed since midnight.](https://github.com/sivaaninraj/37DaysOfCoding-Python/blob/master/Day006.md)

**input:**

Num=3900

Output:

Hr=1

mins= 65