- 1. Use the "format" function to display the following floating-point values with three decimal digits of precision.
- (a) 4580.5034 (b) 0.00000046004 (c) 5000402.000000000006

2. Give a call to print that is provided one string that displays the following address on three separate lines.

CDAC

Old Madras Road

Bangalore

```
In [2]: 1 print("CDAC \n Old Madras Road \n Bangalore")

CDAC
Old Madras Road
Bangalore
```

3. What is the value of variables num1 and num2 after the following instructions are executed?

num = 5

k = 5

num1 = num + k * 2

num2 = num + k * 2

Are the values id(num1) and id(num2) equal after the last statement is executed?

```
In [6]:
1    num = 5
2    k = 5
3    num1 = num + k * 2
4    num2 = num + k * 2
5    print(num1,num2)
6    num1==num2
7

15 15
```

Out[6]: True

4. Evaluate the following expressions. (Use operator precedence and associativity).

Let var1 = 10, var2 = 30 and var3 = 2.

(a) var1 - 6 ** 4 * var2 ** 3 (b) var1 // var2 / var3 (c) var1 * var2 / 4 // var3

5. Write a Python program that prompts the user to enter an upper or lower case letter and displays the corresponding Unicode encoding.

6. Develop and test a program that prompts the user for their age and determines approximately how many breaths and how many heartbeats the person has had in their life. The average respiration (breath) rate of people changes during different stages of development. Use the breath rates given below for use in your program:

	Breaths per Minute
Infant	30-60
1-4 years	20-30
5-14 years	15-25
Adults	12-20

```
In [12]:
           1 | age = int(input("Enter Your Age:"))
           2 bpm infant = (30+20)/2
           3 bpm 1 to 4 years = (20+30)/2
           4 bpm 5 to 14 years = (15+25)/2
           5 \text{ bmp\_adults} = (12+20)/2
           7
              min year = 365*60*24
             heart_rate_per_year = 67.5*min_year
           9
             if (age<=1):</pre>
          10
                print("Average Breaths Per Year is",bmp infant*age*min year)
          11
                print("Average HeartBeat Per Year is",age*heart_rate_per_year)
          12
          13 elif (age>1 and age<=4):
                print("Average Breaths Per year is ",bpm_1_to_4_years*age*min_year)
          14
                print("Average heartbeat Per year is ",age*heart rate per year)
          15
             elif (age>4 and age<=14):</pre>
          16
                print("Average Breaths Per year is ",bpm_5_to_14_years*age*min_year)
          17
          18
                print("Average heartbeat Per year is ",age*heart_rate_per_year)
          19
             else:
                print("Average Breaths Per Year is",bmp adults*age*min year)
          20
          21
                print("Average HeartBeat Per Year is",age*heart rate per year)
          22
```

Enter Your Age:5 Average Breaths Per year is 52560000.0 Average heartbeat Per year is 177390000.0

7. Write a program to find out the largest of three numbers

8. Write program to find out the second largest of three numbers

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