

Python Programming

Variables Homework 1

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Teaching, Training and Coaching since more than a decade!

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Homework 1: Math operations

- Write a program that reads 2 numbers and **print** their + - * / computations as in the picture
- Do good testing for your code
 - E.g. consider negative values
 - E.g. even and odd values
 - E.g. consider zero as first or 2nd number

```
Enter first number: 6
Enter second number: 4
6.0 + 4.0 = 10.0
6.0 - 4.0 = 2.0
6.0 * 4.0 = 24.0
6.0 / 4.0 = 1.5

End of program
```

Homework 2: Students grades

- Write a program that reads 2 students information about math exam
 - For each student read: his name, id and grade
- Print the students
- Print the grades average
- See the picture

```
Enter the first stduent's name: mostafa
Enter the first stduent's ID: 124
Enter the first stduent's grade: 20
```

```
Enter the second stduent's name: belal
Enter the second stduent's ID: 455
Enter the second stduent's grade: 31
```

```
Informat for students and their "Math" grades
mostafa(ID 124) got grade: 20.0
belal(ID 455) got grade: 31.0
Average math grade is 25.5
```

Homework 3: Even and Odd sum

- Given 8 space-separated integers, find the sum of those in **even** places and the sum of those in **odd** places.
 - Note: Even place means the 2nd, 4th, 6th or 8th numbers, odd places are the 1st, 3rd, 5th and 7th numbers.
 - Note: the 8 numbers will be on the same line
 - Note: Don't print any welcome or by messages.
- **Input:** 11 2 7 9 12 -8 3 -1
- **Output:** 2 33
- **Example Explanation:**
 - $2 + 9 + (-8) + (-1) = 2$ for the even places
 - $11 + 7 + 12 + 3 = 33$ for the odd places

Homework #4: Special concatenation

- Write a program that reads 3 strings.
 - For simplicity let's say input is 3 letters A, B and C
- The output is A'B"C repeated 10 times
 - **A'B"CAB"CA'BCA'BCA'BCA'BCA'BCA'BCA'BCA'BCA'BCA'BC**
- Input:
 - I
 - am
 - Mostafa
- Output:
 - I'am"Mostafal'am"Mostafal'am"Mostafal'am"Mostafal'am"Mostafal'am"Mostafal'am"Mostafal'a
m"Mostafal'am"Mostafal'am"Mostafa

“Acquire knowledge and impart it to the people.”

“Seek knowledge from the Cradle to the Grave.”