**Python**

**Homework**

**Introduction to Python Basics WEEK 1**

HOMEWORK

**You are asked to provide answers for the following questions:**

1. Create variable age equal to 32 and check its type.   
age=32

type(age)

2. Create variable height equal to 1.85 and check its type.   
height=1.85

type(height)

3. Create variables name and surname. Define them as 'your\_name' and 'your\_surname'.

name = 'Matanat'

surname = 'Abasova'

print(name, surname)

4. Sum up name and surname variables. Define as ID.

ID=name+' '+surname

print(ID)

5. Use indexing. Find last letter of 'your\_name'.

'Matanat'[-1]

6. Use slicing. Find 2nd and 3rd letters of 'your\_surname'.

'Matanat'[1:3]

7. Create list as new\_list. Include 3 4 5 6 7 integers.

new\_list=[3,4,5,6,7]

print(new\_list)

8. Remove 5 from new\_list.

new\_list = [3, 4, 5, 6, 7]

new\_list.remove(5)

print(new\_list)

9. Delete 2nd value of new\_list.   
new\_list = [3, 4, 5, 6, 7]

del new\_list[1]

print(new\_list)

10. Create tuple as new\_tuple. Include 3 4 5 6 7 integers.

new\_tuple=(3,4,5,6,7)

print(new\_tuple)

11. Change 4 in new\_tuple to 8.

a=list(new\_tuple)

a[1]=8

print (a)

**Optional questions:**

**You may use following more difficult exercises to advance your coding skills.**

1. Find the difference between age and 25, if the number is greater than 17 return the square of the difference.

def calculate\_difference\_and\_square(age):

difference = age - 25

if difference > 17:

return difference \*\* 2

else:

return difference

2. Write a Python function to check number is positive, negative or zero.

def compare\_to\_zero (x):

if x > 0 :

return "x is positive"

elif x < 0 :

return "x is negative"

else:

return "x is zero"



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