

JIUE3108 Introduction to Computing Using Python

Programming Homework 2

Deadline: 2023.9.3 Midnight (SUN)

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Q1. Type Casting

python

x is 1 (integer), y is '3' (string), z is '4.45346' (string)

- 1) Make x, y, z to integer. Print the value and type of x, y, z.
- 2) Make x, y, z to float. Print the value and type of x, y, z.
- 3) Make x, y, z to string. Print the value and type of x, y, z.

- Hint

- You can use `'type()'` to print the type of variables.
- To change `'1.2'` to an integer, you should change the string to float first and then change to an integer.

Q1. Sample Output

python

```
== 1) The type of x, y, z ==
```

```
1 3 4
```

```
<class 'int'>
```

```
<class 'int'>
```

```
<class 'int'>
```

```
== 2) The type of x, y, z ==
```

```
1.0 3.0 4.45346
```

```
<class 'float'>
```

```
<class 'float'>
```

```
<class 'float'>
```

```
== 3) The type of x, y, z ==
```

```
1 3 4.45346
```

```
<class 'str'>
```

```
<class 'str'>
```

```
<class 'str'>
```

Q2. String

python

```
string1 = LetUsTransformTheWorld  
string2 = jakarta international university
```

- 1) Reverse the `string1` using index slicing. Ex) [?:?:?]
- 2) Make `string1` as 'Unmo' using index slicing. Ex) [?:?:?]
- 3) Print the length of `string1`, `string2`
- 4) Make `string2` as 'Jakarta International University' using string methods.
- 5) Make `string2` as capital letters using string methods.
- 6) Replace the word 'jakarta' to 'The best jakarta' in `string2`.

Q2. Sample Output

python

```
1) d\roWehTmrofsnarTsUteL
2) Unmo
3) Length of string1 : 22 , Length of string2: 32
4) Jakarta International University
5) JAKARTA INTERNATIONAL UNIVERSITY
6) The best jakarta international university
```

Q3. Boolean

python

Translate the following statements into Python Boolean expressions and evaluate them:

- (a) The sum of 2 and 2 is less than 4.
- (b) The value of $7 // 3$ is equal to $1 + 1$.
- (c) The sum of 3 squared and 4 squared is equal to 25.
- (d) The sum of 2, 4, and 6 is greater than 12.
- (e) 1387 is divisible by 19.
- (f) 31 is even. (Hint: what does the remainder when you divide by 2 tell you?)
- (g) The lowest price among \$34.99, \$29.95, and \$31.50 is less than \$30.00.