01 Handwritten

1. **Write the types of these variables**

   a. 42   _____

   b. [1, 2, 3]   _____

   c. "Cat"   _____

   d. (1, 2, 3)   _____

2. **Evaluate the following code, write the values of the variables as they change**

Code	a	x	y	z
a = "Python"	Python			
x = 3		3		
y = 6			6	
x = x + 5		8		
y = x - y				
a = a.replace("th", "c")				
z = x < y				
a = a[2]				

3. **Given the below variables, indicate whether the expression is True or False**

```
shopping = ["Banana", "Orange", "Pear"]
X = 8
B = 2
```

"Banana" **in** shopping	true / false
"Apple" **not in** shopping	true / false
X < B	true / false
X > B **and** "Apple" **in** shopping	true / false
Shopping[0] == "Banana"	true / false
Shopping[1] != "Orange"	true / false
"Pineapple" **in** shopping **or** "Pear" **in** shopping	true / false

4. **What does the shopping list look like after the following?**

   a. shopping   ["Banana", "Orange", "Pear"]

   b. shopping.**append**("Apple")   _____

   c. **del** shopping[2]   _____

   d. shopping.**remove**("Banana") _____

01 Handwritten Answers

5. **Write the types of these variables**

   a. 42   Number/Integer

   b. [1, 2, 3] List

   c. "Cat"   String

   d. (1, 2, 3) Tuple

6. **Evaluate the following code, write the values of the variables as they change**

Code	a	x	y	z
`a = "Python"`	Python			
`x = 3`		3		
`y = 6`			6	
`x = x + 5`		8		
`y = x - y`			2	
`a = a.replace("th", "c")`	Pycon			
`z = x < y`				False
`a = a[2]`	c			

7. **Given the below variables, indicate whether the expression is True or False**

```
shopping = ["Banana", "Orange", "Pear"]
X = 8
B = 2
```

`"Banana" `**`in`**` shopping`	**true** / false
`"Apple" `**`not in`**` shopping`	**true** / false
`X < B`	true / **false**
`X > B `**`and`**` "Apple" `**`in`**` shopping`	true / **false**
`Shopping[0] == "Banana"`	**true** / false
`Shopping[1] != "Orange"`	true / **false**
`"Pineapple" `**`in`**` shopping `**`or`**` "Pear" `**`in`**` shopping`	**true** / false

8. **What does the shopping list look like after the following?**

   a. `shopping`   `["Banana", "Orange", "Pear"]`

   b. `shopping.`**`append`**`("Pie")` `["Banana", "Orange", "Pear", "Pie"]`

   c. **`del`**` shopping[2]`   `["Banana", "Orange", "Pie"]`

   d. `shopping.`**`remove`**`("Banana")`   `["Orange", "Pie"]`