

# Python Practical Manual Answers

CED 122

## Practical 1

1. Insert the missing part of the code below to output "Hello World".

```
```python code
print("Hello World")
```
```

2. Complete the code block, print "YES" if 5 is larger than 2. Hint: remember the indentation.

```
```python code
if 5 > 2:
    print("YES")
```
```

3. Comments in Python are written with a special character, which one?

```
```python code
# This is a comment
```
```

4. Use a multiline string to make a multiline comment:

```
```python code
"""
This is a comment
written in
more than just one line
"""
```
```

5. Create a variable named `carname` and assign the value `Volvo` to it.

```
```python code
carname = "Volvo"
```
```

6. Create a variable named `x` and assign the value `50` to it.

```
```python code
x = 50
```
```

7. Display the sum of `5 + 10`, using two variables: `x` and `y`.

```
```python code
x = 5
y = 10
print(x + y)
```
```

8. Create a variable called `z`, assign `x + y` to it, and display the result.

```
```python code
z = x + y
print(z)
```
```

9. Insert the correct syntax to assign values to multiple variables in one line:

```
```python code
x, y, z = "Orange", "Banana", "Cherry"
```
```

10. Insert the correct syntax to assign the same value to all three variables in one code line.

```
```python code
x = y = z = "Orange"
```
```

11. Insert the correct keyword to make the variable `x` belong to the global scope.

```
```python code
def myfunc():
    global x
    x = "fantastic"
```
```

## Practical 2

### Section 1

#### First Column

Code:

```
```python code
```

```
x = 5
```

```
print(type(x))
```

```
```
```

Data type: `int`

#### Second Column

Code:

```
```python code
```

```
x = "Hello World"
```

```
print(type(x))
```

```
```
```

Data type: `str`

#### Third Column

Code:

```
```python code
```

```
x = 20.5
```

```
print(type(x))
```

```
```
```

Data type: `float`

#### #### Fourth Column

Code:

```
```python code
```

```
x = ["apple", "banana", "cherry"]  
print(type(x))  
```
```

Data type: `list`

#### #### Fifth Column

Code:

```
```python code
```

```
x = ("apple", "banana", "cherry")  
print(type(x))  
```
```

Data type: `tuple`

#### #### Sixth Column

Code:

```
```python code
```

```
x = True  
print(type(x))  
```
```

Data type: `bool`

#### Seventh Column

Code:

```
```python code
x = {"name" : "John", "age" : 36}
print(type(x))
```
```

Data type: `dict`

### Section 2

#### First Task

Convert the value of txt to lower case.

Given:

```
```python code
txt = "Hello World"
```
```

Solution:

```
```python code
txt = txt.lower()
```
```

#### #### Second Task

Get the characters from index 2 to index 4 (exclusive).

Given:

```
```python code
txt = "Hello World"
```
```

Solution:

```
```python code
x = txt[2:5]
```
```

#### #### Third Task

The statement below would print a Boolean value, which one?

Given:

```
```python code
print(bool(0))
```
```

Solution:

```
```python code
print(False)
```
```

#### #### Fourth Task

Divide 10 by 2, and print the result.

Given:

```
```python code
```

```
print(10 / 2)
```

```
```
```

Solution:

```
```python code
```

```
print(5.0)
```

```
```
```

Putting everything together:

### Section 1

1.

- `int`

2.

- `str`

3.

- `float`

4.

- `list`

5.

- `tuple`

6.

- `bool`



7.

- `dict`

### ### Section 2

1.

```
```python code
txt = "Hello World"
txt = txt.lower()
```
```

2.

```
```python code
txt = "Hello World"
x = txt[2:5]
```
```

3.

```
```python code
print(False)
```
```

4.

```
```python code
print(5.0)
```
```

### Practical 3

1. Print the number of items in the list:

```
``python code
```

```
fruits = ["apple", "banana", "cherry"]  
print(len(fruits))  
...
```

2. Print the third, fourth, and fifth items in the tuple:

```
``python code
```

```
fruits = ("apple", "banana", "cherry", "orange", "kiwi", "melon",  
"mango")  
print(fruits[2:5])  
...
```

3. Use the `discard` method to remove "banana" from the fruits set:

```
``python code
```

```
fruits = {"apple", "banana", "cherry"}  
fruits.discard("banana")  
...
```

4. Use the `clear` method to empty the car dictionary:

```python code

```
car = {  
    "brand": "Ford",  
    "model": "Mustang",  
    "year": 1964  
}  
car.clear()  
```
```

#### Practical 4

# Problem 1

```python code

```
a = 2  
b = 50  
c = 2  
  
if a == c or b == c:  
    print("YES")
```

# Problem 2

```
i = 1  
while i < 6:  
    print(i)
```

```
i += 1
```

```
print ("i is no longer less than 6")
```

```
# Problem 3
```

```
fruits = ["apple", "banana", "cherry"]
```

```
for x in fruits:
```

```
    if x == "banana":
```

```
        break
```

```
    print(x)
```

```
...
```