Python Questions and Answers – While and For Loops – 3

This set of Tough Python Questions & Answers focuses on "While and For Loops".

1. What will be the output of the following Python code?

```python
x = 'abcd'
for i in x:
    print(i)
    x.upper()
```

a) a B C D
b) a b c d
c) A B C D
d) error

View Answer

Answer: b
Explanation: Changes do not happen in-place, rather a new instance of the string is returned.

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2. What will be the output of the following Python code?

```python
x = 'abcd'
for i in x:
    print(i.upper())
```

a) a b c d
b) A B C D
c) a B C D
d) error

View Answer

Answer: b
Explanation: The instance of the string returned by upper() is being printed.

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3. What will be the output of the following Python code?

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```
x = 'abcd'
for i in range(x):
    print(i)
```

a) a b c d
b) 0 1 2 3
c) error
d) none of the mentioned

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Answer: c
Explanation: range(str) is not allowed.

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4. What will be the output of the following Python code?

```
x = 'abcd'
for i in range(len(x)):
    print(i)
```

a) a b c d
b) 0 1 2 3
c) error

d) 1 2 3 4

View Answer

Answer: b
Explanation: i takes values 0, 1, 2 and 3.

5. What will be the output of the following Python code?

```python
x = 'abcd'
for i in range(len(x)):
    print(i.upper())
```

a) a b c d
b) 0 1 2 3
c) error
d) 1 2 3 4

View Answer

Answer: c
Explanation: Objects of type int have no attribute upper().

6. What will be the output of the following Python code snippet?

```python
x = 'abcd'
for i in range(len(x)):
    i.upper()
print (x)
```

a) a b c d
b) 0 1 2 3
c) error
d) none of the mentioned

View Answer

Answer: c
Explanation: Objects of type int have no attribute upper().

7. What will be the output of the following Python code snippet?

```python
x = 'abcd'
for i in range(len(x)):
```

```
        x[i].upper()
    print (x)
```

a) abcd
b) ABCD
c) error
d) none of the mentioned

View Answer

Answer: a

Explanation: Changes do not happen in-place, rather a new instance of the string is returned.

8. What will be the output of the following Python code snippet?

```
x = 'abcd'
for i in range(len(x)):
    i[x].upper()
print (x)
```

a) abcd
b) ABCD
c) error
d) none of the mentioned

View Answer

Answer: c

Explanation: Objects of type int aren't subscriptable. However, if the statement was x[i], an error would not have been thrown.

9. What will be the output of the following Python code snippet?

```
x = 'abcd'
for i in range(len(x)):
    x = 'a'
    print(x)
```

a) a
b) abcd abcd abcd
c) a a a a
d) none of the mentioned

View Answer

Answer: c

Explanation: range() is computed only at the time of entering the loop.

10. What will be the output of the following Python code snippet?

```python
x = 'abcd'
for i in range(len(x)):
    print(x)
    x = 'a'
```

a) a

b) abcd abcd abcd abcd

c) a a a a

d) none of the mentioned

View Answer

Answer: d

Explanation: abcd a a a is the output as x is modified only after 'abcd' has been printed once.

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