Python Questions and Answers – While and For Loops – 1

This set of Python Multiple Choice Questions & Answers (MCQs) focuses on "While and For Loops".

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

```python
x = ['ab', 'cd']
for i in x:
    i.upper()
print(x)
```

a) ['ab', 'cd']
b) ['AB', 'CD']
c) [None, None]
d) none of the mentioned

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Answer: a
Explanation: The function upper() does not modify a string in place, it returns a new string which isn't being stored anywhere.

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

```python
x = ['ab', 'cd']
for i in x:
    x.append(i.upper())
print(x)
```

a) ['AB', 'CD']
b) ['ab', 'cd', 'AB', 'CD']
c) ['ab', 'cd']
d) none of the mentioned

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Answer: d
Explanation: The loop does not terminate as new elements are being added to the list in each iteration.

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

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```python
i = 1
while True:
    if i%3 == 0:
        break
    print(i)

    i + = 1
```

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

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Answer: c
Explanation: SyntaxError, there shouldn't be a space between + and = in +=.

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

```
i = 1
while True:
    if i%007 == 0:
        break
    print(i)
    i += 1
```

a) 1 2 3 4 5 6
b) 1 2 3 4 5 6 7
c) error
d) none of the mentioned

View Answer

Answer: a

Explanation: Control exits the loop when i becomes 7.

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

```
i = 5
while True:
    if i%0011 == 0:
        break
    print(i)
    i += 1
```

a) 5 6 7 8 9 10
b) 5 6 7 8
c) 5 6
d) error

View Answer

Answer: b

Explanation: 0O11 is an octal number.

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

```
i = 5
while True:
    if i%009 == 0:
        break
    print(i)
    i += 1
```

a) 5 6 7 8
b) 5 6 7 8 9
c) 5 6 7 8 9 10 11 12 13 14 15 ....
d) error

View Answer

Answer: d

Explanation: 9 isn't allowed in an octal number.

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

```python
i = 1
while True:
    if i%2 == 0:
        break
    print(i)
    i += 2
```

a) 1
b) 1 2
c) 1 2 3 4 5 6 ...
d) 1 3 5 7 9 11 ...

View Answer

Answer: d

Explanation: The loop does not terminate since i is never an even number.

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

```python
i = 2
while True:
    if i%3 == 0:
        break
    print(i)
    i += 2
```

a) 2 4 6 8 10 ...
b) 2 4
c) 2 3
d) error

View Answer

Answer: b
Explanation: The numbers 2 and 4 are printed. The next value of i is 6 which is divisible by 3 and hence control exits the loop.

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

```python
i = 1
while False:
    if i%2 == 0:
        break
    print(i)
    i += 2
```

a) 1
b) 1 3 5 7 ...
c) 1 2 3 4 ...
d) none of the mentioned

View Answer

Answer: d
Explanation: Control does not enter the loop because of False.

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

```python
True = False
while True:
    print(True)
    break
```

a) True
b) False
c) None
d) none of the mentioned

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Answer: d
Explanation: SyntaxError, True is a keyword and it's value cannot be changed.

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