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AICTE (https://swayam-uat-central.appspot.com/explorer?ncCode=AICTE) **»** **Programming and Data Structures with Python (course)**

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PDSP Quiz 2

The due date for submitting this assignment has passed.

Due on 2021-11-08, 15:40 IST.

Score: 6/6=100%

Assignment submitted on 2021-11-08, 15:32 IST

The next three questions refer to the following Python program.

```
def f(l):
  l.append(l[-1])
  return(l)

def g(l):
  l = l + [l[-1]]
  return(l)

list1 = [8,4,6,8]
list2 = f(list1)
list3 = g(list2)
```

1) What is the value of `list1` at the end of this program?

[8,4,6,8,8]

Yes, the answer is correct.
Score: 1
Feedback:
The call `list2 = f(list1)` indirectly updates `list1` from [8,4,6,8] to [8,4,6,8,8].

Accepted Answers:
(Type: Regex Match) \s\[\s*8\s*,\s*4\s*,\s*6\s*,\s*8\s*,\s*8\s*\]\s**

1 point

2) What is the value of `list2` at the end of this program?

> [8,4,6,8,8]

Yes, the answer is correct.
Score: 1
Feedback:
The call `list2 = f(list1)` sets `list2` to to [8,4,6,8,8]. The call `l3 = g(list2)` has no effect on `list2` because `l` is reassigned within `g()`.

Accepted Answers:
(Type: Regex Match) \s*\[\s*8\s*,\s*4\s*,\s*6\s*,\s*8\s*,\s*8\s*\]\s*

1 point

3) What is the value of `list3` at the end of this program?

> [8,4,6,8,8,8]

Yes, the answer is correct.
Score: 1
Feedback:
The call `list3 = g(list2)` sets `list3` to [8,4,6,8,8] + [8].

Accepted Answers:
(Type: Regex Match) \s*\[\s*8\s*,\s*4\s*,\s*6\s*,\s*8\s*,\s*8\s*,\s*8\s*\]\s*

1 point

The next three questions refer to the following Python program.

```python
def foobar(d,k):
  try:
    d[k].append(3)
  except IndexError:
    d[k] = [301]
  except KeyError:
    d[k] = [401]
  except AttributeError:
    d[k] = [501]
  except:
    d[k] = [601]
  else:
    d[k].append(999)

myd = {1:"hello", 2:[77]}
foobar(myd,1)
foobar(myd,2)
foobar(myd,3)
```

Note:

- `KeyError` is triggered when a dictionary key is not valid.
- `IndexError` is triggered when a list index is not valid.
- `AttributeError` is triggered when an invalid method (function) is applied to a value.

4) At the end of the program, what is the value of `myd[1][-1]`?

501

Yes, the answer is correct.
Score: 1

Accepted Answers:
(Type: Numeric) 501

1 point

5) At the end of the program, what is the value of `myd[2][-1]`?

999

Yes, the answer is correct.
Score: 1

Accepted Answers:
(Type: Numeric) 999

1 point

6) At the end of the program, what is the value of `myd[3][-1]`?

401

Yes, the answer is correct.
Score: 1

Accepted Answers:
(Type: Numeric) 401

1 point