Quiz: Exceptions

CSCI040: ~~Computing for the Web~~ Introduction to Hacking

Total Score: /5

Printed Name:

Quiz rules:

1. You MAY use any printed or handwritten notes.

2. You MAY NOT use a computer or any other electronic device.

Problem 1. The following code (circle one)

terminates without error   throws an exception   runs forever

If the code terminates without error, write the output. If the code throws an exception, state the exception.

```
grades={
    'alice':{'hw1':99,'hw2':88},
    'bob':{'hw1':82,'hw2':91},
}
alice_points = 0
for v in grades[alice].values():
    alice_points += grades[v]
print('alice_points=', alice_points)
```

Problem 2. The following code (circle one)

terminates without error   throws an exception   runs forever

If the code terminates without error, write the output. If the code throws an exception, state the exception.

```
grades={
    'alice':{'hw1':99,'hw2':88},
    'bob':{'hw1':82,'hw2':91},
}
output = "grade=" + grades['charlie']['hw1']
print('output=', output)
```

Problem 3. The following code (circle one)

terminates without error   throws an exception   runs forever

If the code terminates without error, write the output. If the code throws an exception, state the exception.

```
xs = [1, 2, 3]
try:
    result = xs[3]
    result = 5
except IndexError:
    result = -1
print('result=', result)
```

Problem 4. The following code (circle one)

terminates without error   throws an exception   runs forever

If the code terminates without error, write the output. If the code throws an exception, state the exception.

```
grades={
    'alice':{'hw1':99,'hw2':88},
    'bob':{'hw1':82,'hw2':91},
}
try:
    output = "grade=" + grades['charlie']['hw1']
except KeyError:
    output = 'oops'
print('output=', output)
```

Problem 5. The following code (circle one)

terminates without error   throws an exception   runs forever

If the code terminates without error, write the output. If the code throws an exception, state the exception.

```
def bar(xs):
    assert(len(xs) > 0)
    return len(xs)*2

result = 0
try:
    result += bar([1,2,3])
    result += bar([2,3])
    result += bar([])
    result += bar([5])
except AssertionError:
    pass

print('result=', result)
```