HKUST Future-Ready Scholars

Introduction to Game Programming using Python

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THE HONG KONG
UNIVERSITY OF SCIENCE
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```
a = 1234
b = 8888
```

```
a = 120
b = 12
c = 1.2
d = 112
```

```
a = "abc"
b = 'abc'
c = "abcd"
d = "abcd'
```

```
a = '5'
b = 5
c = "5"
```

```
a = 5 + 3
b = 4 * 2
c = -2 + 6
d = 7 - (-1)
```

```
print("I love", "HKUST.")
```

```
1  a = 50
2  b = 3
3  print(a + b)
4  print("53")
5  print("5", "3")
```

```
x = input("Enter a phrase: ")
print(x)
```

Input: Hello!

```
x = input("Enter a phrase: ")
print(x, "F")
```

Input: ABCDE

```
import random
a = 5
b = 15
num = random.randint(a, b + 3)
print(num)
```

```
import random
num = random.randint(2, 5)
print(num)
```

```
x = 5
if x == 5:
    print("TRUE")
else:
    print("FALSE")
```

```
x = 10
if x * 2 != 10:
    print("FALSE")
else:
    print("TRUE")
```

```
num = 10
ans = 0
if num > 10:
    ans = 100
elif num == 10:
    ans = 200
else:
    ans = 300
```

```
num = 7
ans = 0
if num >= 7:
    ans = 100
elif num <= 7:
    ans = 200
elif num == 7:
    ans = 300
else:
    ans = 400
```

```
a = "abc"
if a == "abc" and a == "abcd":
    print("TRUE")
else:
    print("FALSE")
```

```
a = "abc"
if a == "abc" or a == "abcd":
    print("TRUE")
else:
    print("FALSE")
```

```
a = 5
if ((not a == 3) and a != 9) or a != 5:
    print(a, a+1)
else:
    print(a+1, a)
```

```
a = 5
if not not not not not not not not not not not not not a == 5:
    print("TRUE")
else:
    print("FALSE")
```

```
a = SOME_INTEGER # Any integer
if CONDITION:
    print("TRUE")
else:
    print("FALSE")

not (a <= 0 or a > 100)          # (1)
(not a <= 0) and (not a > 100) # (2)
not (a <= 0 and a > 100)         # (3)
(not a <= 0) and a > 100         # (4)
```

Above is the revision quiz.

Below are proposed end-of-lesson questions.

```
l = [1, 2, 3, 4, 5, 6]
print(l[1])
```

```
l = [1, 1, 2, 3, 5, 8]
print(l[0], l[2], l[4])
```

```
l = ["a", "b", "cde"]
print(len(l))
```

```
l = [1, 1, 2, 3, 5, 8]
l.append(4)
```

```
l = [1, 1, 2, 3, 5, 8]
l[2] = 2
```

```
l = [1, 1, 2, 3, 5, 8]
l.append(4)
if len(l) == 6:
    print("Nice")
```

```
l = ['g', 'u', 'e', 's', 's']
if 's' in l:
    print('sss')
else:
    print('ss')
print('s')
```

```
word = ["u", "s", "t"]
while len(word) == 3:
    print("UST")
word.append("is_pretty")
```