07_In-Class_Python_Basics_Simple_Operations

21032020-PythonSimpleOperations
Training Clarusway
Pear Deck - March 21, 2020 at 10:16AM

Part 1 - Summary

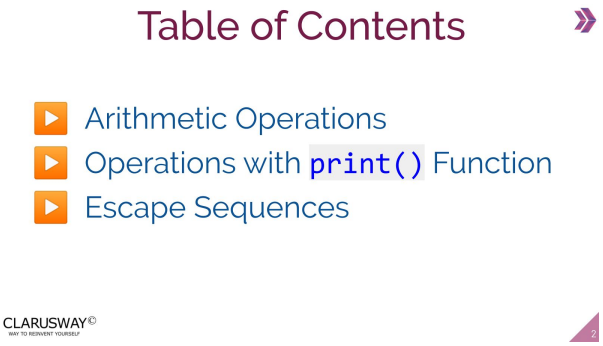
Use this space to summarize your thoughts on the lesson

Part 2 - Responses

Slide 1

Use this space to take notes:

Slide 2



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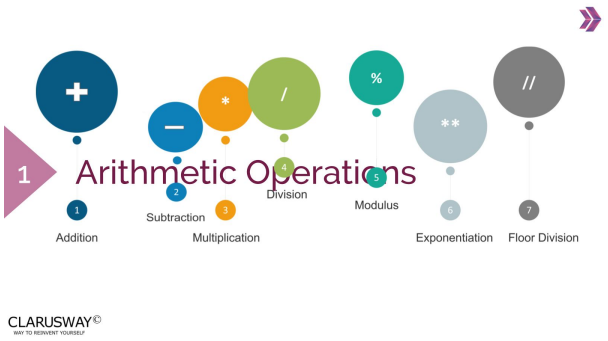
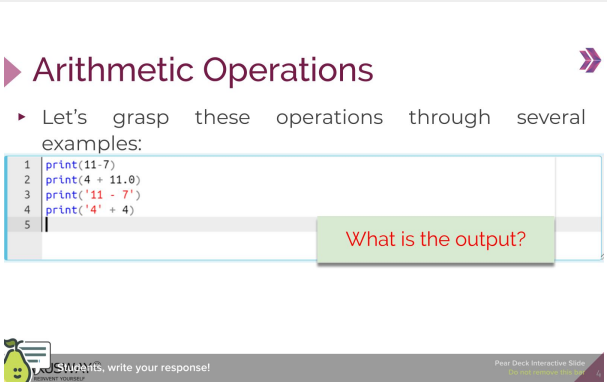
Slide 3



Use this space to take notes:

Slide 4	Your Response



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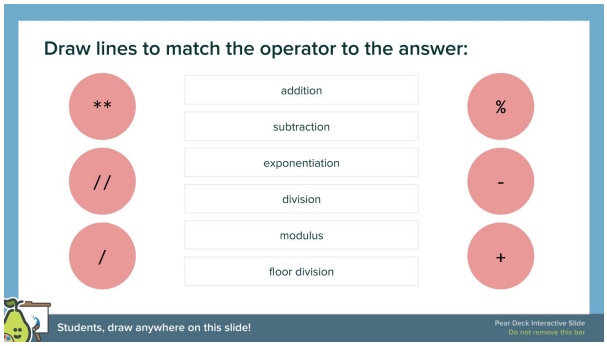
Slide 5

Your Response



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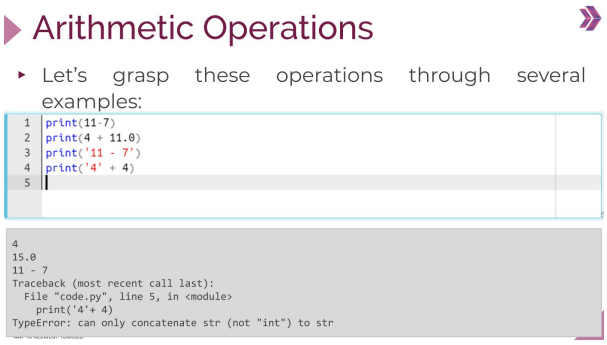
Slide 6



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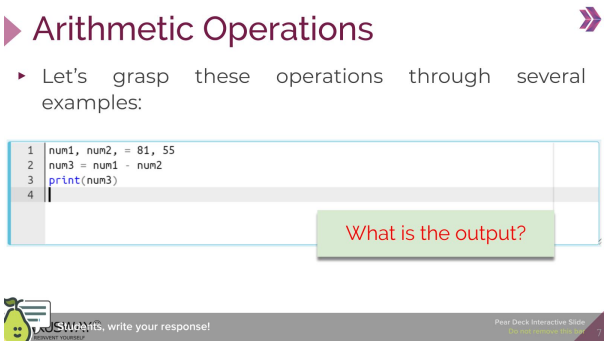
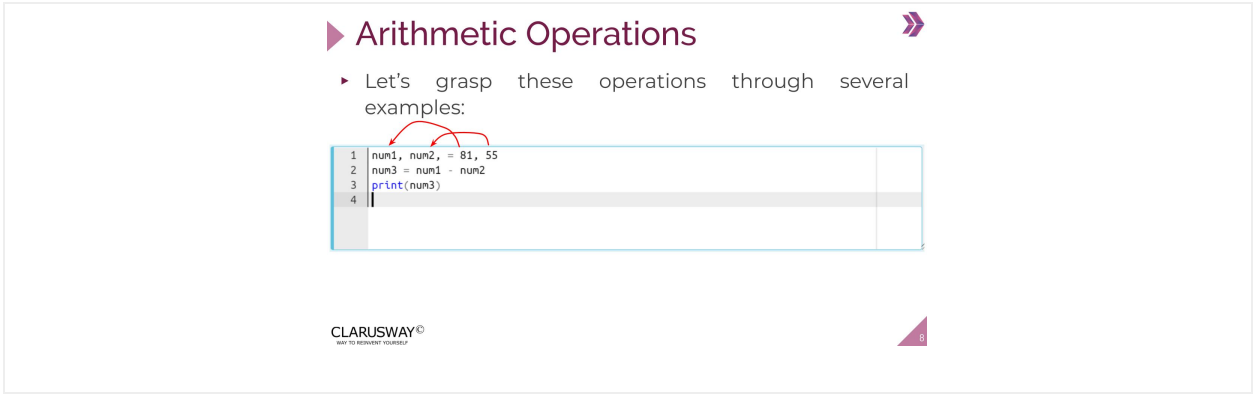
Slide 7	Your Response
	**Answer 1:** 26

Use this space to take notes:

Slide 8



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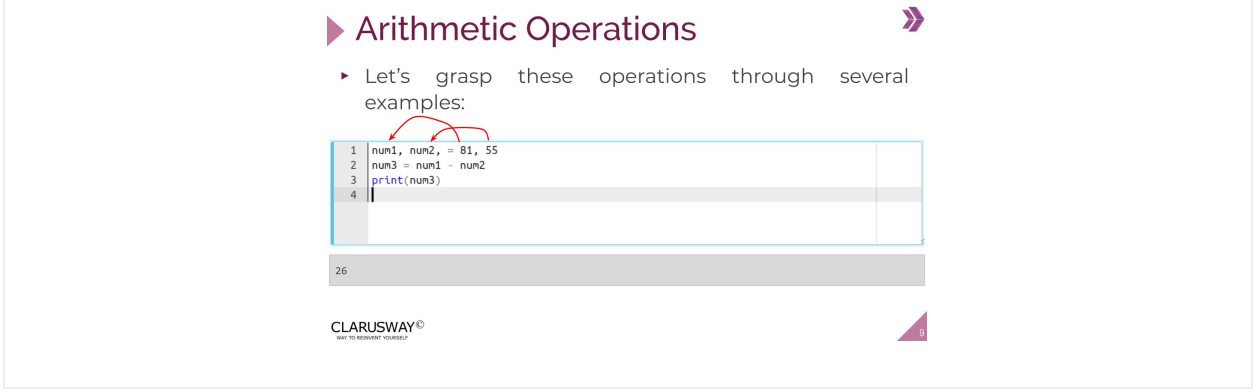

Use this space to take notes:

Slide 10

Arithmetic Operations

- Let's calculate the **are** of a **circle**:
  - `r = 5`
  - `area = ?`

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Use this space to take notes:

Slide 11

Arithmetic Operations

- Let's calculate the **are** of a **circle**:

```
pi = 3.14
r = 5
area = pi * r**2

print(area)
```

```
78.5
```

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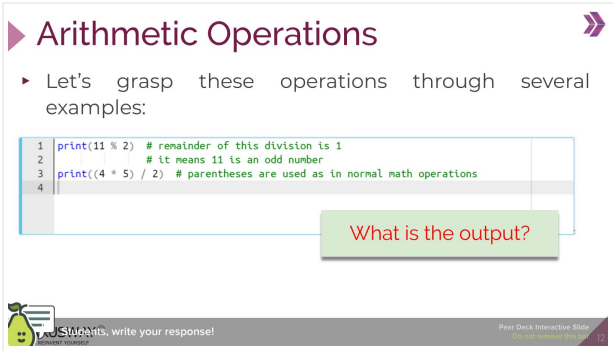
Use this space to take notes:

Slide 12	Your Response
	Answer 1: 1 10.0



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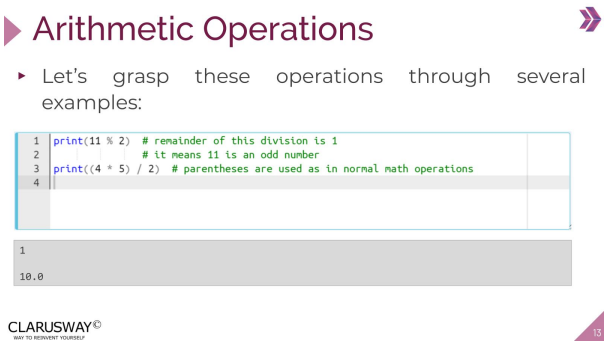

Use this space to take notes:

Slide 14	Your Response
	Answer 1: 8 9 4

Arithmetic Operations

- Let's grasp these operations through several examples:

```
1 print(2 ** 3)  # 2 to the power of 3
2 print(3 ** 2)  # square of 3
3 a = 2
4 b = 8
5 print((a * b) ** 0.5)  # square root
6
7
```

What is the output?

Students, write your response!

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Use this space to take notes:

Slide 15

Arithmetic Operations

- Let's grasp these operations through several examples:

```
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2 print(3 ** 2)  # square of 3
3 a = 2
4 b = 8
5 print((a * b) ** 0.5)  # square root
6
7
```

```
9
9
4.0
```

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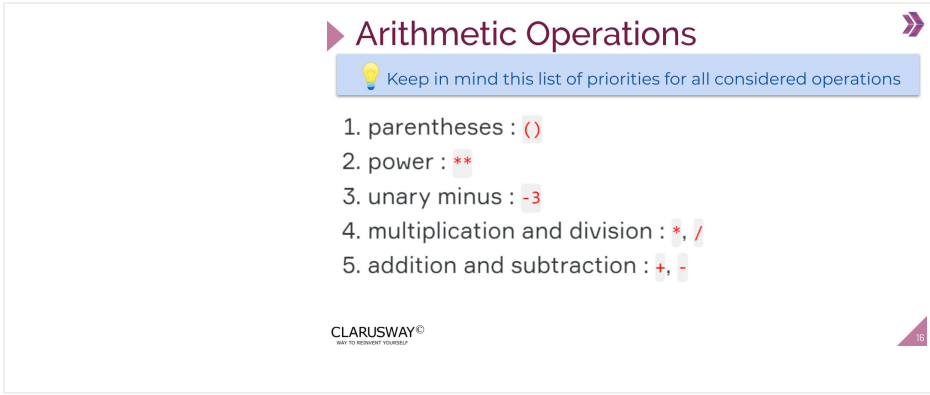

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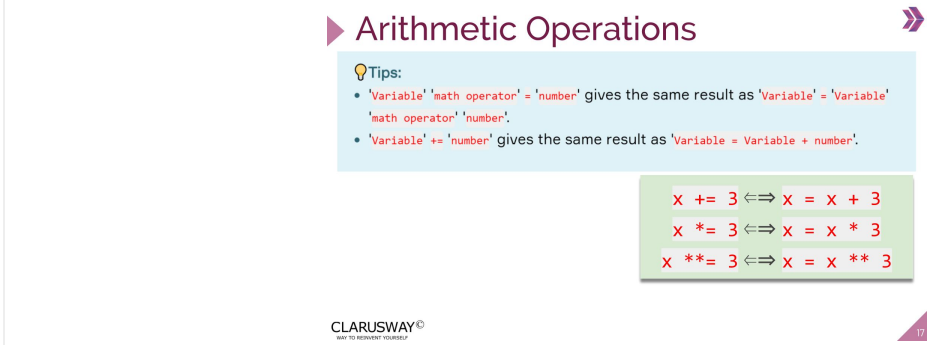

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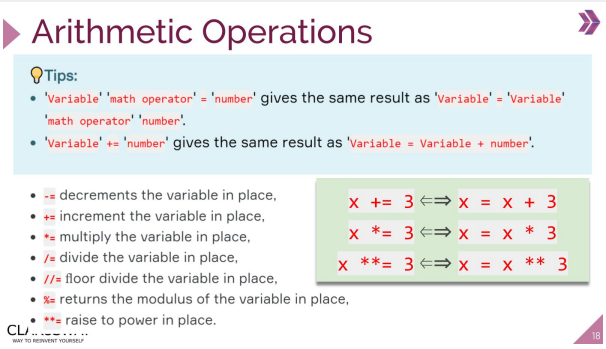

Use this space to take notes:

Slide 19	Your Response
	**Answer 1:** 4

Use this space to take notes:

Slide 20

Arithmetic Operations

- The output :

```
a = (1 + 3 ) ** (2 ** (1 * 2 / 2) / 2)
print(a)
```

```
4.0
```

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Use this space to take notes:

Slide 21

Arithmetic Operations

- Let's calculate the **hypotenuse** of a **triangle**:
  - a = 3
  - b = 4
  - c = ?

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Use this space to take notes:

Slide 22

Arithmetic Operations

- Let's calculate the **are** of a **circle**:

```
a = 3
b = 4
c = (a**2 + b**2)**0.5

print(c)
```

```
5
```

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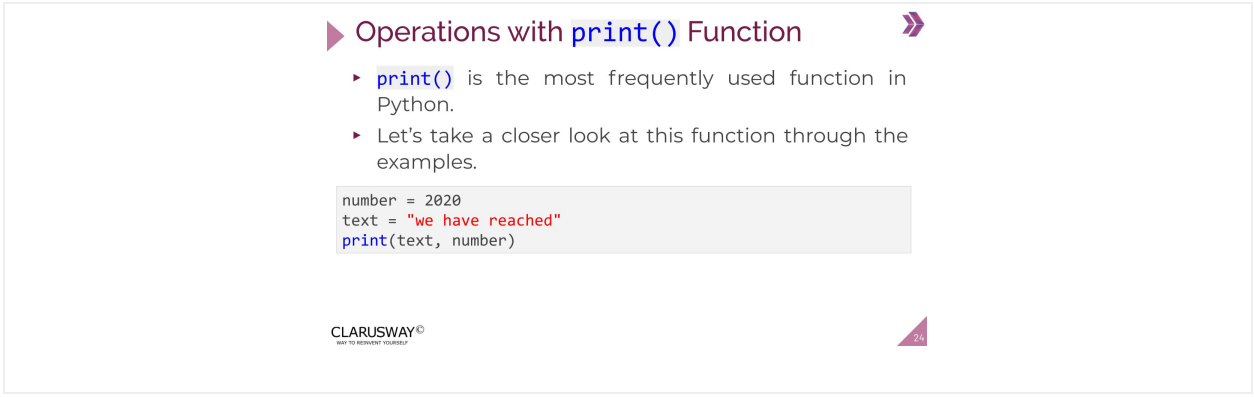
Slide 23

Use this space to take notes:

Slide 24



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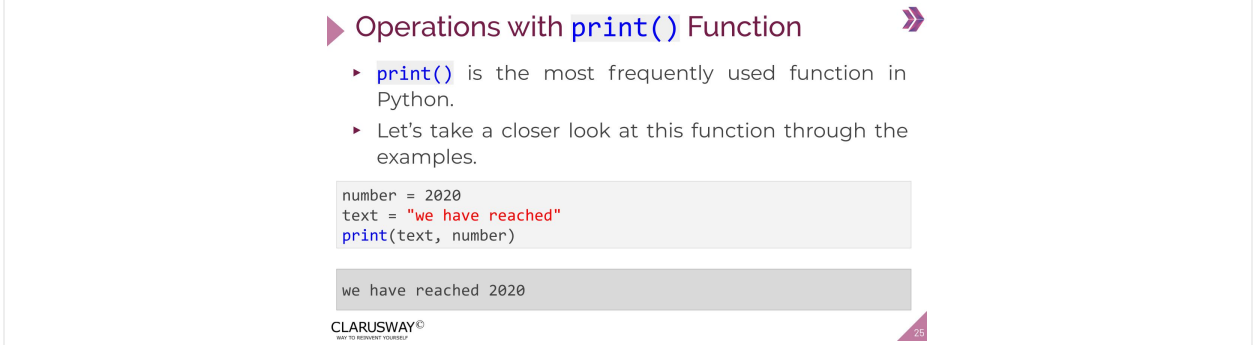
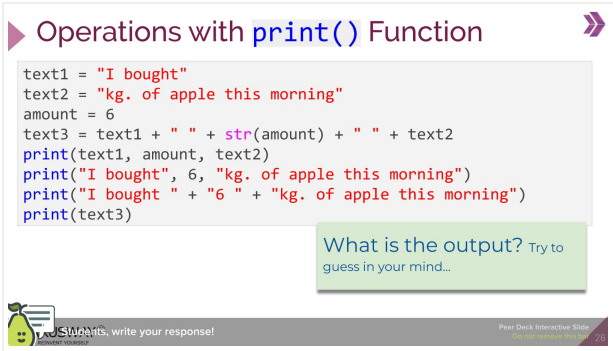


Use this space to take notes:

Slide 26	Your Response
	Answer 1: I bought 6 kg. of apple this morning I bought 6 kg. of apple this morning I bought 6 kg. of apple this morning



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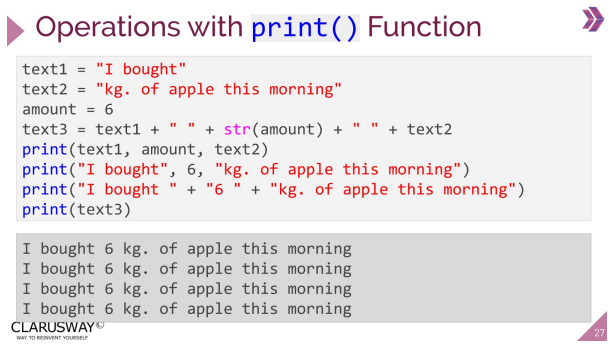

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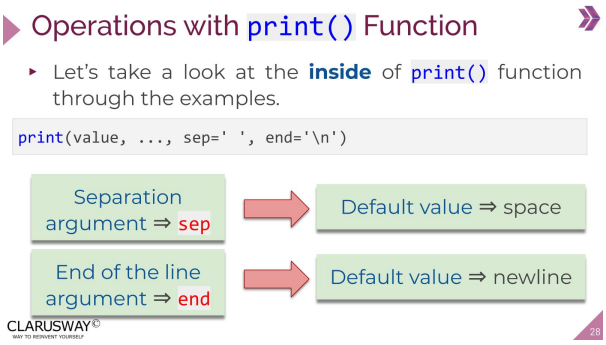

Use this space to take notes:

Slide 29	Your Response
	Answer 1: I bought*6*kg. of apple this morning I bought 6 kg. of apple this morning I bought 6 kg. of apple this morning and came to home

Use this space to take notes:

Slide 30

Operations with `print()` Function

```
text1 = "I bought"
text2 = "kg. of apple this morning"
amount = 6
print(text1, amount, text2, sep="*")
print("I bought", 6, "kg. of apple this morning", sep="")
print("I bought " + "6 " + text2, end=" ")
print("and came to home")
```

```
I bought*6*kg. of apple this morning
I bought6kg. of apple this morning
I bought 6 kg. of apple this morning and came to home
```

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Use this space to take notes:

Slide 31

Operations with `print()` Function

```
x = 5
print ('value of x       : ', x)

x += 2
print ("2 more of x      : ", x, "\n") # using string expression '\n',
                                       # we produce extra line.
                                       # So that we had empty line.
y = 10
print ('value of y       : ', y)

y -= 2
print ("2 minus y        : ", y, "\n")

z = 6
print ('value of z       : ', z)

z *= 2
print ("2 times z        : ", z, "\n")
```

What is the output? Use your ***Playground***...

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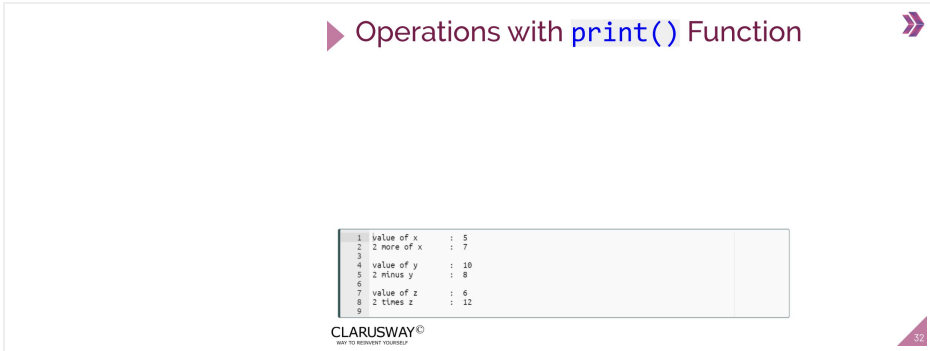

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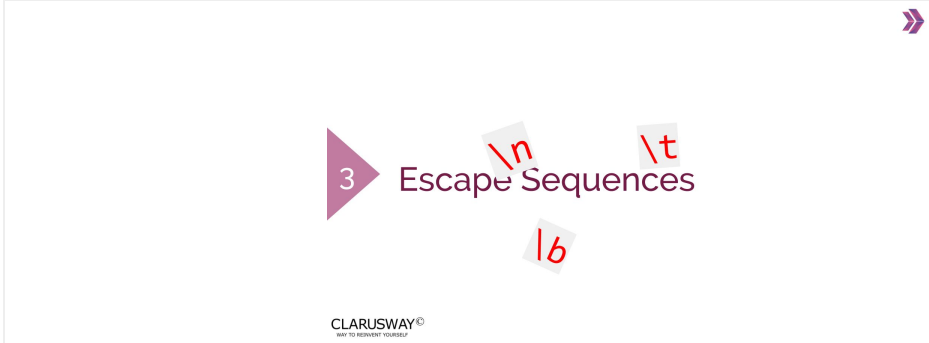

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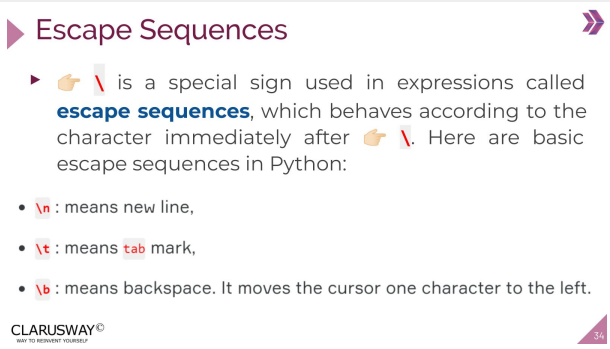

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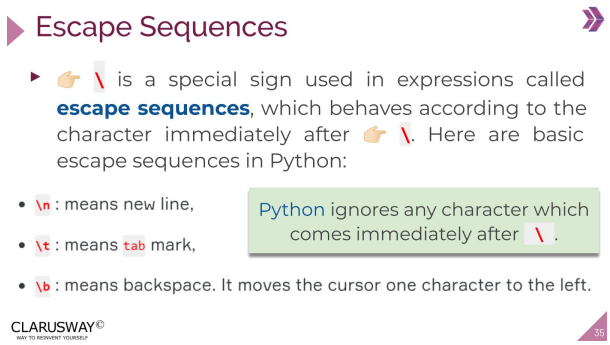
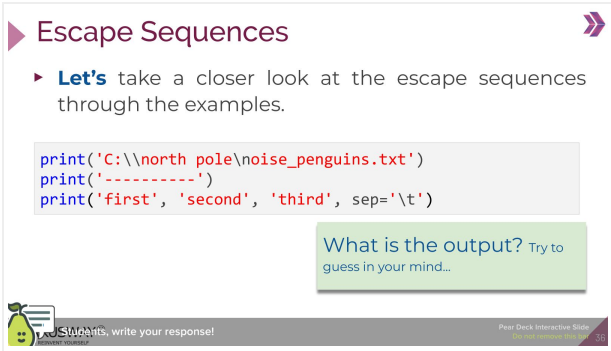


Use this space to take notes:

Slide 36	Your Response



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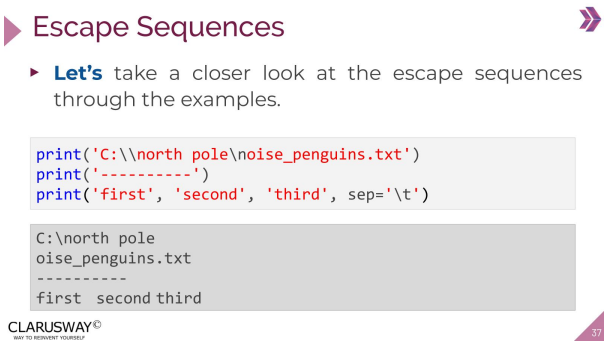

Use this space to take notes:

Slide 38	Your Response
	Answer 1: we are\boosting o

Escape Sequences

- **Let's** take a closer look at the escape sequences through the examples.

```
print('we are', '\boosting', 'our', '\brotherhood')
print('it\'s essential to learn Python\'s libraries in IT World')
```

What is the output? Try to guess in your mind...

Students, write your response!

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Slide 39

Escape Sequences

- **Let's** take a closer look at the escape sequences through the examples.

```
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print('it\'s essential to learn Python\'s libraries in IT World')
```

```
we areoosting ourrotherhood
it's essential to learn Python's libraries in IT World
```

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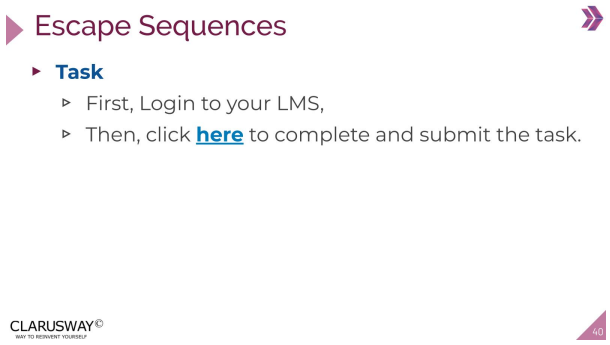

Link(s) on this slide:

- https://lms.clarusway.com/mod/lesson/view.php?id=2035&pageid=4237

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