Python Scripting

INTRODUCTION

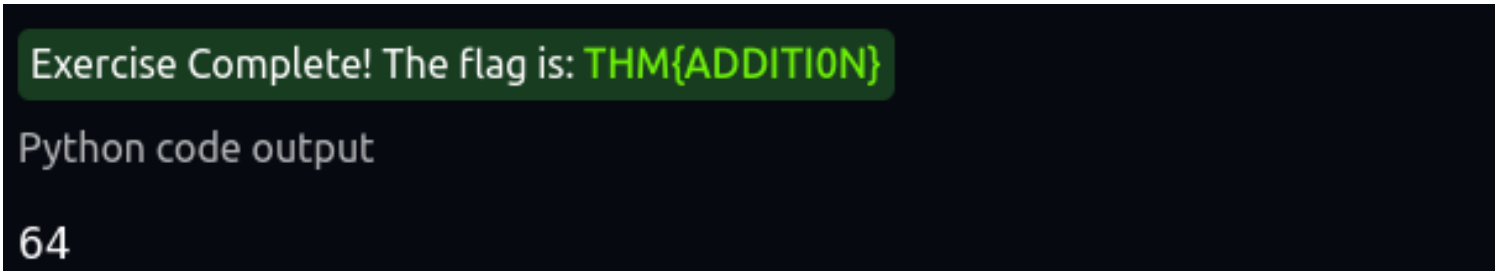
This report shows how I solved each task on this room.

On the code editor, print "Hello World". What is the flag?

THM{PRINT_STATEMENTS} ✓ Correct Answer Hint

In the code editor, print the result of 21 + 43. What is the flag?

THM{ADDITI0N} ✓ Correct Answer Hint



Print the result of 142 - 52. What is the flag?

THM{SUBTRCT} ✓ Correct Answer

```
 2 num1 = 142
 3 num2 = 52
 4 res = num1 - num2
 5
 6 print(res)
 7
 8
 9
10
```

Exercise Complete! The flag is: THM{SUBTRCT}

Python code output

90

Print the result of 10 * 342. What is the flag?

THM{MULTIPLICATION_PYTHON}

✓ Correct Answer

```
 1 # Write your python code here
 2 num1 = 10
 3 num2 = 342
 4 res = num1 * num2
 5
 6 print(res)
 7
 8
 9
10
```

Exercise Complete! The flag is: THM{MULTIPLICATION_PYTHON}

Python code output

3420

Print the result of 5 squared. What is the flag?

THM{EXP0N3NT_POWER}

✓ Correct Answer

Hint

```python
# Write your python code here
num1 = 5**2

print(num1)
```

Exercise Complete! The flag is: THM{EXP0N3NT_POWER}

Python code output

```
25
```

In the code editor, create a variable called height and set its initial value to 200.

No answer needed

✓ Correct Answer

```
1  # Write your python code here
2  height = 200
3
4
5
6
7
8
9
10
```

Exercise Complete! The flag is: THM{EXP0N3NT_POWER}

Python code output

```
25
```

On a new line, add 50 to the height variable.

No answer needed

✓ Correct Answer

```python
# Write your python code here
height = 200
height = height + 50

print (height)
```

Exercise Complete! The flag is: THM{VARIABL3S}

Python code output

```
250
```

On another new line, print out the value of height. What is the flag that appears?

THM{VARIABL3S}

✓ Correct Answer

```python
# Write your python code here
height = 200
height = height + 50

print (height)
```

Exercise Complete! The flag is: THM{VARIABL3S}

Python code output

```
250
```

Once you've written the application in the code editor's shipping.py tab, a flag will appear, which is the answer to this question.

THM{IF_STATEMENT_SHOPPING}

✓ Correct Answer

Hint

```
14 customer_basket_cost = 34
15 customer_basket_weight = 44
16
17 if customer_basket_cost > 100:
18   print("free shipping")
19 else:
20   shipping = 1.20 * customer_basket_weight
21   total = customer_basket_cost + shipping
22   print(total)
23
24
```

Exercise Complete! The flag is: THM{IF_STATEMENT_SHOPPING}

Python code output

```
86.8
```

In shipping.py, on line 12 (when using the Code Editor's Hint), change the **customer_basket_cost** variable to **101** and re-run your code. You will get a flag (if the total cost is correct based on your code); the flag is the answer to this question.

THM{MY_FIRST_APP}

✓ Correct Answer

```
customer_basket_weight = 44

if customer_basket_cost > 100:
  print(customer_basket_cost)
else:
  shipping = 1.20 * customer_basket_weight
  total = customer_basket_cost + shipping
  print(total)
```

Exercise Complete! The flag is: THM{MY_FIRST_APP}

Python code output

```
101
```

On the code editor, click back on the "script.py" tab and code a loop that outputs every number from 0 to 50.

THM{L00PS_WHILE_FOR}

✓ Correct Answer

Hint

```python
# Write your python code here
for number in range(51):
  print(number)
```

Exercise Complete! The flag is: THM{L00PS_WHILE_FOR}

Python code output

```
0
1
2
3
4
5
6
7
8
9
10
```

You've invested in Bitcoin and want to write a program that tells you when the value of Bitcoin falls below a particular value in dollars.

In the code editor, click on the bitcoin.py tab. Write a function called **bitcoinToUSD** with two parameters: **bitcoin_amount**, the amount of Bitcoin you own, and **bitcoin_value_usd**, the value of bitcoin in USD. The function should return usd_value, which is your bitcoin value in USD (to calculate this, in the function, you times bitcoin_amount variable by bitcoin_value_usd variable and return the value). The start of the function should look like this:

```
def bitcoinToUSD(bitcoin_amount, bitcoin_value_usd):
```

Once you've written the bitcoinToUSD function, use it to calculate the value of your Bitcoin in USD, and then create an if statement to determine if the value falls below $30,000; if it does, output a message to alert you (via a print statement).

THM{BITC0IN_INVESTOR}

✓ Correct Answer

Hint

```
24
25 # Check if the value falls below $30,000
26 if usd_value < 30000:
27     print("Alert: Your Bitcoin value is below $30,000!")
28 else:
29     print("Your Bitcoin value is above $30,000.")
30
31 # Print the USD value for verification
32 print("The value of your Bitcoin in USD is:
   ${:.2f}".format(usd_value))
33
```

Exercise Complete! The flag is: THM{BITC0IN_INVESTOR}

Python code output

```
Your Bitcoin value is above $30,000.
The value of your Bitcoin in USD is: $30000.00
```

1 Bitcoin is now worth $24,000. In the code editor on line 14, update the bitcoin_to_usd variable value to 24000 and see if your Python program recognises that your investment is below the $30,000 threshold.

No answer needed

✓ Correct Answer

Python code output

```
Your Bitcoin value is above $30,000.
The value of your Bitcoin in USD is: $36000.00
```

In the code editor, write Python code to read the flag.txt file. What is the flag in this file?

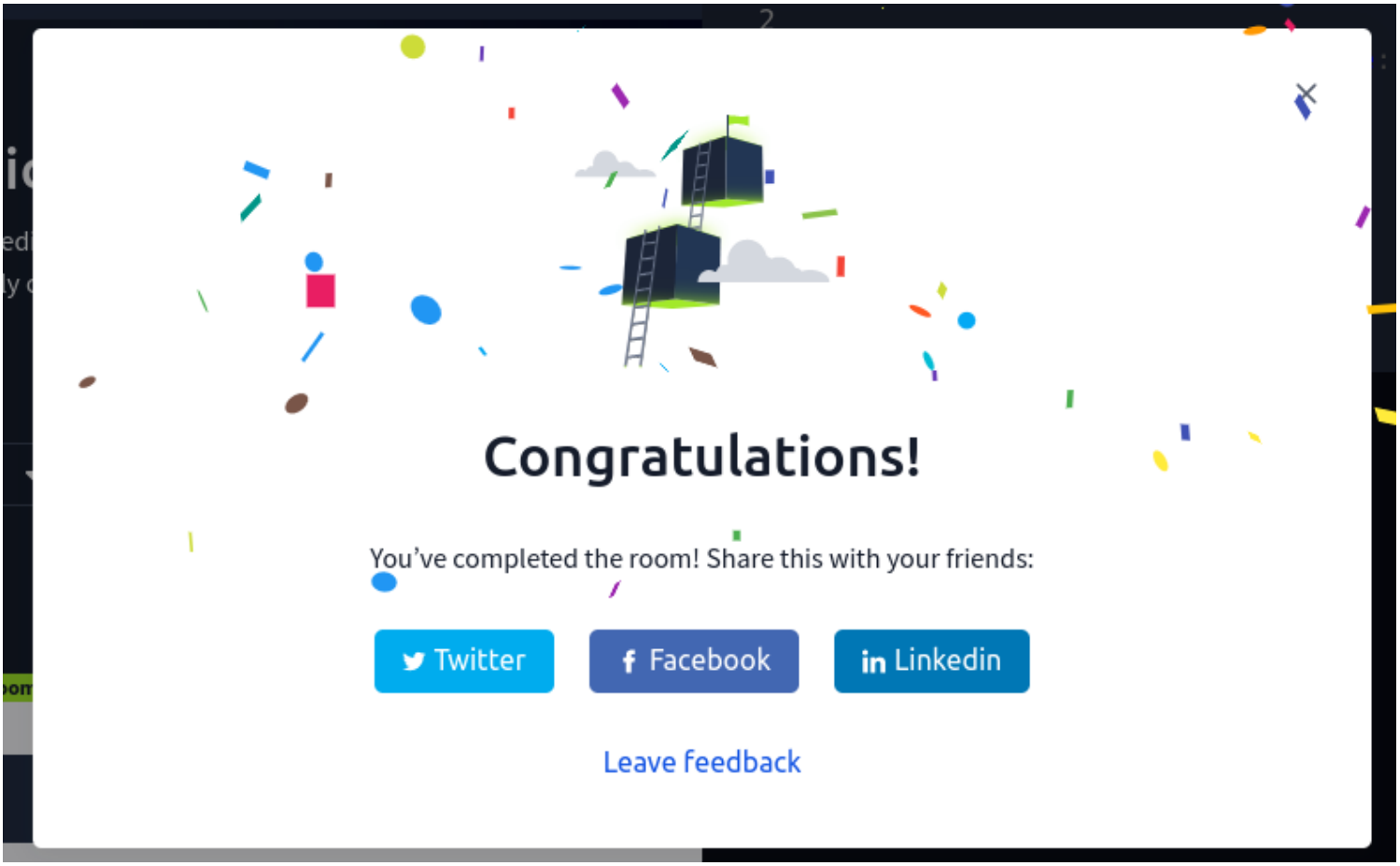
THM{F1LE_R3AD}

✓ Correct Answer

```python
# Write your python code here

with open("flag.txt", "r") as file:

    flag_content = file.read()


print(flag_content)


```

Python code output

```
THM{F1LE_R3AD}
```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