

The screenshot shows a code editor with a Python script named `CARREON_MA...NNE_LE1.py*`. The script imports the `math` module and prompts the user for two numbers, `x` and `y`, to calculate $x^{**}y$ and $\log_2(x)$. The terminal window below shows the execution of the script, where the user inputs `x: 2` and `y: 3`, resulting in output `X**y = 8.0` and `log(x) = 1.0`.

```
import math

x = float(input("Enter number x: "))
y = float(input("Enter number y: "))

print(f"X**y = {x**y}")
print(f"log(x) = {math.log2(x)}")
```

```
Enter number x: 2
Enter number y: 3
X**y = 8.0
log(x) = 1.0
Press any key to continue . . . |
```

CS128-5L - PROGRAMMING LANGUAGES FOR DATA SCIENCE LABORATORY
2Q SY2324

NAME: MA. ADDINE ANNE T. CARREON

SECTION: A1

Laboratory Exercise 1

Instructions:

Write a Python program that does the following in order:

1. Asks the user to enter a number “`x`”
2. Asks the user to enter a number “`y`”
3. Prints out number “`x`”, raised to the power “`y`”.
4. Prints out the log (base 2) of “`x`”.

```
In [4]: import math
x = float(input("Enter number x: "))
y = float(input("Enter number y: "))

print(f"X**y = {x**y}")
print(f"log(x) = {math.log2(x)}")
```

```
Enter number x: 2
Enter number y: 3
X**y = 8.0
log(x) = 1.0
```