

Question: Create python functions for exponentiation, square root, and factorial.

```
C:\Users\athul\Documents\upcode\PYTHON\Programs> assessment1.py ...
1  # 1. Exponentiation
2
3  def exponentiation(base, power):
4      return base ** power
5
6  # 2. Square Root
7
8  def square_root(number):
9      return number** 0.5
10
11 # 3. Factorial
12
13 def factorial(n):
14     if n == 0:
15         return 1
16     return n * factorial(n - 1)
17
18
19 print(exponentiation(2, 3))
20 print(square_root(16))
21 print(factorial(5))
22
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS powershell + - [] ...

```
PS C:\Users\athul\Documents\upcode\python\programs> python assessment1.py
8
4.0
120
PS C:\Users\athul\Documents\upcode\python\programs>
```