Quiz 01: Warm Up

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N06

Q1: Given a source file main.py (Python 3) as below. What is the output of the program if we run the command: **python main.py 1 2 3 4 5**?   *

```python
import sys

if __name__ == '__main__':
    result = ''
    for it in sys.argv[1:]:
        result += it
    print(result)
```

12345

Q2: Which command is used to create a new folder named "abc" the Linux shell? *

mkdir abc

Q3: Write a command to copy file a.txt to the folder b/ in the Linux shell. *

cp a.txt b/

Q4: Write a command to install NumPy library using pip? *

pip install numpy

Q5: Given two matrices a and b as below. What is b.a (inner product)? *

```
a =
[[1 2]
  [3 4]]
b =
[ 1 -1]
```

[-2 -2]

Q6: What is the maximum of y? *

$$y = f(x) = -x^2 + 2x - 1$$

0

Q7: Compute f'(0) *

$$y = f(x) = x^2 + e^{2x}$$

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Q8: What is the output of the program below? *

```python
def f(n, g):
    return g(n)
print(f(3, lambda x: x**2))
```

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