Industry Coding Practice (Lab 1) (08/01/2024)

[Note: Before Execution of the code students need to install python in their systems]

Numbers and Operators:

1.

```
>>> 2 + 2
4
>>> 50 - 5*6
20
>>> (50 - 5*6) / 4
5.0
>>> 8 / 5  # division always returns a floating point number
1.6
```

2.

```
>>> 17 / 3  # classic division returns a float
5.666666666666667
>>>
>>> 17 // 3  # floor division discards the fractional part
5
>>> 17 % 3  # the % operator returns the remainder of the division
2
>>> 5 * 3 + 2  # floored quotient * divisor + remainder
17
```

3.

```
>>> 5 ** 2  # 5 squared
25
>>> 2 ** 7  # 2 to the power of 7
128
```

4.

```
>>> width = 20
>>> height = 5 * 9
>>> width * height
900
```

5.

In Python a variable which is not defined cannot be accessed.

(Try to do---- You will get error)

6.

Mixed typed operands-

(Converts the float to Integer)

```
>>> 4 * 3.75 - 1
14.0
```

7.

The last evaluated value is assigned to a variable "_" and propagated for further calculations.

```
>>> tax = 12.5 / 100
>>> price = 100.50
>>> price * tax
12.5625
>>> price + _
113.0625
>>> round(_, 2)
113.06
```

(Practical 1: Python Program to print Hello world, add Two Numbers, Find the Square Root, Calculate the Area of a Triangle, Swap Two Variables,)