

Answers to the Q&A

Question 1: **What is the difference between a function and a procedure?**

Answer: A function is a procedure that returns a value.

Example: `add(x, y)` is a function that returns the sum of `x` and `y`. `print(x, y)` is a procedure that prints the values of `x` and `y`.

Question 2: **What is the difference between a list and a tuple?**

Answer: A list is mutable, a tuple is not.

Example: `list = [1, 2, 3]` is a list, `tuple = (1, 2, 3)` is a tuple.

Question 3:

Answer: A function.

Example: `def add(x, y):`

`return x + y`

`add(1, 2)`

`3`

Question 4: **What is the difference between a list and a dictionary?**

Answer: A list is ordered, a dictionary is not.

Example: `list = [1, 2, 3]`

`dict = {'key': 'value'}`

To create a list, use `list()` or `list(iterable)`.

To create a dictionary, use `dict()` or `dict(key=value, ...)`.

Example: `dict = dict(a=1, b=2)`

`dict = {'a': 1, 'b': 2}`

Question 5: **What is the difference between a list and a set?**

Answer:

Example: `list = [1, 2, 3]`

`set = {1, 2, 3}`

`set = set([1, 2, 3])`

`set = {1, 2, 3}`