Languages and methods of programming

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Home Work

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What Python Conceptual Hierarchy.

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1. Programs are composed of modules.
2. Modules contain statements.
3. Statements contain expressions.
4. Expressions create and process objects.

Name four of Python's core data types.

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- Numbers

Example `1234, 3.1415, 3+4j, 0b111, Decimal(), Fraction()`

- Strings

Example `'spam', "Bob's", b'a\x01c', u'sp\xc4m'`

`Lists [1, [2, 'three'], 4.5], list(range(10))`

Name four of Python's core data types.

- Dictionaries
Example {'food': 'spam', 'taste': 'yum'}, dict(hours=10)
- Tuples
Example (1, 'spam', 4, 'U'), tuple('spam'), namedtuple

Name four of Python's core data types.

• Files
Example open('eggs.txt'), open(r'C:\ham.bin', 'wb')
• Sets
Example set('abc'), {'a', 'b', 'c'}
• Other core types
Example Booleans, types, None

Name four of Python's core data types.

- Program unit types
Example Functions, modules, classes
- Implementation-related types
Example Compiled code, stack tracebacks

Popular programming languages

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How get Python's help?

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```
s='spam'
print(s)
help(s.replace)
```

Missing Keys: if Tests

```python
D = {'a': 1, 'b': 2, 'c': 3}
print (D)
D['e'] = 99
print (D)

#print(D['f'] )

#'f' in D

if not 'f' in D:
print('missing')
```

Sorting Keys:
for Loops