ASSIGNMENT - 18 (PYTHON)

1. Create a zoo.py file first. Define the hours() function, which prints the string 'Open 9-5 daily'. Then, use the interactive interpreter to import the zoo module and call its hours() function.

```
# Contents of zoo.py

def hours():
    """Prints the opening hours of the zoo."""
    print('Open 9-5 daily')
```

Save this code in a file named zoo.py. Once we have created the file, we can use the interactive interpreter to import the zoo module and call its hours() function. Here's how we can do it:

```
# Using the interactive interpreter

# Import the zoo module
import zoo

# Call the hours() function from the zoo module
zoo.hours()
```

Output will be: Open 9-5 daily

2. In the interactive interpreter, import the zoo module as menagerie and call its hours() function.

```
# Import the zoo module as menagerie
import zoo as menagerie

# Call the hours() function from the menagerie module
menagerie.hours()
```

Output will be: Open 9-5 daily

3. Using the interpreter, explicitly import and call the hours() function from zoo.

```
# Explicitly import the hours() function from the zoo module
from zoo import hours

# Call the hours() function
hours()
```

Output will be: Open 9-5 daily

4. Import the hours() function as info and call it.

```
# Import the hours() function from the zoo module and alias it as info
from zoo import hours as info

# Call the info() function
info()
```

Output will be: Open 9-5 daily

5. Create a plain dictionary with the key-value pairs 'a': 1, 'b': 2, and 'c': 3, and print it out.

```
# Create the plain dictionary
plain_dict = {'a': 1, 'b': 2, 'c': 3}

# Print the dictionary
print(plain_dict)
```

Output will be: {'a': 1, 'b': 2, 'c': 3}

6.Make an OrderedDict called fancy from the same pairs listed in 5 and print it. Did it print in the same order as plain?

```
from collections import OrderedDict

# Create the OrderedDict
fancy = OrderedDict([('a', 1), ('b', 2), ('c', 3)])

# Print the OrderedDict
print(fancy)
```

Output will be: OrderedDict([('a', 1), ('b', 2), ('c', 3)])

7. Make a default dictionary called dict_of_lists and pass it the argument list. Make the list dict_of_lists['a'] and append the value 'something for a' to it in one assignment. Print dict_of_lists['a'].

```
from collections import defaultdict

# Create a defaultdict with the argument list
dict_of_lists = defaultdict(list)

# Append the value 'something for a' to the list associated with the key 'a' in one assignment
dict_of_lists['a'].append('something for a')

# Print the value associated with the key 'a'
print(dict_of_lists['a'])
```

Output will be: ['something for a']