1. **What would be the output if the following code snippet is executed?**

class Sample:

def \_\_iter\_\_(self):

self.num = 1

return self

def \_\_next\_\_(self):

num = self.num

self.num += 2

return num

a = iter(Sample())

next(a)

next(a)

next(a)

A) 1

1

1

1

1 (and so on)

B) 1

3

5

7

9 (and so on)

C) 1

3

5

Stop Iteration Error

D) 3

3

3

s (and so on)

1. **What is the output of the below program?**

def sum(\*args):

'''Function returns the sum of all values'''

r = 0

for i in args:

r += i

return r

print (sum(1, 2, 3))

print (sum(1, 2, 3, 4, 5))

A) 6 and 15

B) 6 and 100

C) 123 and 12345

D) None of the mentioned

1. **What is the output of this program?**

L = [lambda x: x \*\* 2,

lambda x: x \*\* 3,

lambda x: x \*\* 4]

for f in L:

print(f(3))

A) 27 and 81 and 343

B) 6 and 12

C) 9 and 27 and 81

D) None of the mentioned

1. **What is the output of L[1:] if L = [1,2,3]?**

A) 2,3 B) 2 C) 3 D None of the above.

1. **What is a variable defined outside a function referred to as?**

A) A static variable

B) A global variable

C) A local variable

D) An automatic variable

1. **Suppose t = (1, 2, 4, 3), which of the following is incorrect?**A) print(t[3]) B) t[3] = 45  
   C) print(max(t)) D) print(len(t))
2. **What is the type of each element in sys.argv?**

A) set B) list C) tuple D) string

1. What is the pickling or JSON?

A) It is used for object serialization B) It is used for object deserialization

C) None of the mentioned D) Both A and B

1. **Is the following code valid?**

try:

*# Do something*

except:

*# Do something*

else:

*# Do something*

A) no, there is no such thing as else B) no, else cannot be used with except

C) no, else must come before except D) yes

1. **What is the output of the following code?**

def foo():

try:

print(1)

finally:

print(2)

foo()

A) 1 B) 2 C) 1 2 D) Error

1. **How are variable length arguments specified in the function heading?**

A) one star followed by a valid identifier

B) one underscore followed by a valid identifier

C) two stars followed by a valid identifier

D) two underscores followed by a valid identifier

1. **What is the output of the following?**

for i in range(10):

if i == 5:

break

else:

print(i)

print("Here")

A) 0 1 2 3 4 Here B) 0 1 2 3 4 5 Here  
C) 0 1 2 3 4 D) 1 2 3 4 5

1. **What is the following code trying to achieve?**

import operator

dicta = {}

keys = range(256)

vals = map(chr, keys)

map(operator.setitem, [dicta]\*len(keys), keys, vals)

A) Creating a dictionary with random values

B) Creating a dictionary with different keys (0 to 255) but same values

C) Creating a dictionary that maps the ordinals from 0 to 255 to their character equivalents

D) mapping the keys to fixed values by setting the ordinals from 0 to length of keys

1. **What is setattr() used for?**
2. set an attribute
3. To access the attribute of the object
4. To check if an attribute exists or not
5. To delete an attribute
6. **Which of these in not a core datatype?**

A) Lists B) Dictionary C) Tuples D) Class

1. **class change:**

def \_\_init\_\_(self, x, y, z):

self.\_a = x + y + z

x = change(1,2,3)

y = getattr(x, '\_a')

setattr(x, '\_a', y+1)

setattr(x, '\_b', y+2)

print(x.\_a)

print(x.\_b)

A) 8 8 B) 7 8 C) 7 7 D) Error

1. **Let A and B be objects of class Foo. Which functions are called when print(A + B) is executed?**

a) \_\_add\_\_(), \_\_str\_\_()

b) \_\_str\_\_(), \_\_add\_\_()

c) \_\_sum\_\_(), \_\_str\_\_()

d) \_\_str\_\_(), \_\_sum\_\_()

1. **What are the methods which begin and end with two underscore characters called?**

A) Special methods

B) In-built methods

C) User-defined methods

D) Additional methods

1. **What is hasattr(obj,name) used for?**

A) To access the attribute of the object

B) To delete an attribute

C) To check if an attribute exists or not

D) To set an attribute

1. **What would be the output of the following program?**

class foo():

def \_\_delattr\_\_(self, name):

print(name)

super().\_\_delattr\_\_(name)

f = foo()

f.ttt = 100

del f.ttt

A) Attribute Error

B) ttt

C) foo

D) Acess Error