```
The output of expression, k = [print(i) for i in "maverick" if i not in "aeiou"]
is
prints all characters that are not vowels
The output of the expression [ chr(i) for i in [65, 66, 67] ] is _
['A', 'B', 'C']
Generators consume more space in memory than the lists. State if the statement
is True or false.
False
A generator function can have multiple yield expressions. State if the statement
is True or False.
True
The output of the expression { ord(i) for i in 'apple' } is __
{97, 112, 108, 101}
What is the return type of function 'id'?
Which of the following are present in a function header?
function name and parameter list
The elements of an iterator can be accessed multiple times. State if the
statement is True or False.
False
The output of the expression \{0 \text{ if } i\%2 == 0 \text{ else } 1 \text{ for } i \text{ in } range(8)\} is
What is the default return value of a Python function?
None
 Which of the following types of arguments can be passed to a function?
 All the options mentioned
The output of the expression itertools.takewhile(lambda x: x<5, [1,4,6,4,1]) is
[1,4]
Which of the following statement sets the metaclass of class A to B?
class A:
    __metaclass__ = B
What is the output of the following code?
2 2 3 2
What is the output of the following code?
(<class '__main__.child'>, <class '__main__.mother'>, <class '__main__.father'>,
<class '__main__.grandpa'>, <class 'object'>)
What is the output of the following code?
False
A(x: 12, y: 3)
What is the output of the following code?
"4 - 10"
What is the output of the following code?
Results in Error
```

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Which of the following keyword is used for creating a method inside a class?

def

Whta is the output of the following code ? two 0.0 -0x2a

Which of the following method is used by a user defined class to support '+' operator?
__add__

Which methods are invoked on entering into and exiting from the block of code written in 'with' statement?

__enter__, __exit__

The output of the expression '2' == 2 is ______False

Which of the following execption occurs, when an undefined object is accessed? NameError

hich of the keyword is used to display a customised error message to the user?

In which of the following scenarios, finally block is executed? always

Which of the following execption occurs, when a number is divided by zero? ZeroDivisionError

Which of the following exception occurs, when an integer object is added to a string object?

TypeError

When will the else part of try-except-else be executed? when no exception occurs

If a list has 5 elements, then which of the following exceptions is raised when 8th element is accessed? IndexError

Can one block of except statements handle multiple exception? Yes, like except NameError, SyntaxError, ...

How many except statements can a try-except block have? more than zero

Any Python Script can act like a Module. State if the statement is True or False?
True+

In Python, which of the following files is mandatory to treat a folder as a package? init.py(bold)+

Which of the following expression can be used to check if the file 'C:\Sample.txt' exists and is also a regular file? os.path.isfile(C:\Sample.txt)+

Which of the following modules is used to manage installtion, upgradtion, deletion of other pacakages automatically? pip+

Which of the following methods of 'random' module is used to pick a single

element, randomly, from a given list of elements?
choice+

Which of the following statement retreives names of all builtin module names? import sys; sys.builtin_module_names+

Which of the following is not a way to import the module 'm1' or the functions 'f1' and 'f2' defined in it? import f1, f2 from m1+

All of those mentioned+

Which of the following module is not used for parsing command line arguments automatically? cmdparse+

Which of the following statement retreives names of all builtin objects? import builtins; builtins.dict.keys()+

//////////Asses 1

Which methods are defined in an iterator class? iter, next

Which of the following keyword is used for creating a method inside a class ? def

What is the output of the following code?
(<class '__main__.child'>, <class '__main__.mother'>, <class '__main__.father'>,

<class '__main__.grandpa'>, <class 'object'>)

Which methods are invoked on entering into and exiting from the block of code written in 'with' statement?
__enter__, __exit__

In Python, which of the following files is mandatory to treat a folder as a package? init.py *

 $\underline{\hspace{0.5cm}}$ metaclass $\underline{\hspace{0.5cm}}$ = B

Which of the following variables stores documentation of a function? docstr^*

In which of the following scenarios, finally block is executed? always

Which of the following statement retreives names of all builtin objects? import builtins; builtins.__dict__.keys()

Which keyword is used for defining a function? def

Which of the following modules contain functions that create iterators for efficient looping? itertools

Which of the following module is not used for parsing command line arguments automatically? cmdparse

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```
What is the output of the following code?
2 2 3 2
Which of the following brackets are used to define a set comprehension?
{}
The output of the expression {i:j for i in "abcd" for j in "kiwi"} is _____.
{'a': 'kiwi', 'd': 'kiwi', 'c': 'kiwi', 'b': 'kiwi'}*
When will the else part of try-except-else be executed?
when no exception occurs
Which of the following statement retreives names of all builtin module names?
import sys; sys.builtin_module_names
Whta is the output of the following code ?
two
0.0
-0x2a
How many except statements can a try-except block have?
more than zero
Which of the following exception occurs, when an integer object is added to a
string object?
TypeError
/////////Exercise1
import math
class Point:
  def __init__(self,x,y,z):
    self.x=x
    self.y=y
    self.z=z
  def __str__(self):
    display="point : ("+str(self.x)+","+str(self.y)+","+str(self.z)+")."
    return display
  def __add__(self,other):
    return Point(self.x+other.x,self.y+other.y,self.z+other.z)
def distance(Point1, Point2):
  distance=math.sqrt( (Point1.x-Point2.x)**2 + (Point1.y-Point2.y)**2 +
(Point1.z -Point2.z)**2)
  return distance
p1=Point(5,5,5)
p2=Point(3,4,5)
print(p1+p2)
/////////Exercise2
import unittest
def isEven(x=2):
  return x%2==0
class TestIsEvenMethod(unittest.TestCase):
  def test_isEven1(self):
    self.assertEqual(isEven(5), False)
  def test_isEven2(self):
    self.assertEqual(isEven(10),True)
  def test_isEven3(self):
    self.assertRaises("TypeError", isEven("hello"))
if __name__ == '__main__':
    unittest.main()
```

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```
import sys
class Circle:
  def __init__(self,radius):
    if not (isinstance(radius,int)):
      raise RadiusInputError(radius+" is not a number")
    self.radius=radius
class RadiusInputError(Exception):
  def __init__(self, value):
    self.value=value
  def __str__(self):
   return str(self.value)
  #n = int(sys.stdin.readline())
  #if not 0 <= n <= 100:
  # raise ValueError('the number is not between 0 and 100')
  #string=sys.stdin.readline()
  #if(len(string)>10):
  # raise ValueError('the string has more than 10 #characters')
  #open("hello.txt")
  Circle("7")
#except ValueError as e:
# print(e)
#except IOError as e:
# print("File not found")
except RadiusInputError as e:
  print(e)
/////////Exercise4
import itertools as it
n=list([10,13,16,22,9,4,37])
even=[]
odd=[]
group=it.groupby(n)
for key, graph in group:
  if key%2==0:
    even.append(key)
  else:
    odd.append(key)
print(even,odd)
/////////Exercise5
import os
print ("*" * 20)
path="/home"
lstFiles=[]
lstDir=os.walk(path)
for root, dirs, files in lstDir:
  for fichero in files:
    (nombreFichero, extension) = os.path.splitext(fichero)
    if(extension==".py"):
      lstFiles.append(nombreFichero+extension)
print(lstFiles)
print("LISTADO FINALIZADO")
print ("longitud de la lista = ", len(lstFiles))
```

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////////Exercise3

```
////////Exercise6
import calendar
months_ans=[]
for month in range(1,13):
  mycal=calendar.monthcalendar(2019, month)
  if mycal[4][6]!=0:
    months_ans.append(month)
print(months_ans)
/////////Exercise7
import timeit
def f1():
  x=list(range(1,21))
  y=[i**2 for i in x]
  return y
def f2():
  x=list(range(1,21))
  g=(i**2 \text{ for } i \text{ in } x)
  return g
print(timeit.timeit(f1, number=100000))
print(timeit.timeit(f2, number=100000))
/////////Exercise8
import cProfile
def f1():
  x=list(range(1,200001))
  y=[i**2 for i in x]
  return y
def f2():
  x=list(range(1,200001))
  g=(i**2 \text{ for } i \text{ in } x)
  return g
print(cProfile.runctx("f1()",globals(),locals()))
print("\n"*2+"*"*20+"\n"*2)
print(cProfile.runctx("f2()", globals(), locals()))
```