# What will be the output of the following code: print(type([]))?

- a) <class 'tuple'>
- b) <class 'list'>
- c) <class 'dictionary'>
- d) <class 'set'>

**Answer:** b) <class 'list'>

# What is the output of bool(0) in Python?

- a) True
- b) False
- c) 0
- d) None

Answer: b) False

#### What is the purpose of the self parameter in Python class methods?

- a) To define a class
- b) To refer to the current instance of the class
- c) To create a new object
- d) To delete an object

**Answer:** b) To refer to the current instance of the class

```
def func(a, b=5, c=10):
return a + b + c
print(func(3, 2))
```

d) 13

Answer: d) 13

Which of the following is the correct syntax for defining a dictionary in Python?

**Answer:** a) dict = {"name": "John", "age": 25}

What is the output of the following code:

$$a = [1, 2, 3]$$

$$b = a$$

b.append(4)

print(a)

**Answer:** b) [1, 2, 3, 4]

Which of the following is used to create an anonymous function in Python?

- a) def
- b) lambda
- c) anonymous

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d) func

Answer: b) lambda

## What is the result of the following code:

$$x = [1, 2, 3]$$
  
print(x \* 2)

- a) [1, 2, 3, 1, 2, 3]
- b) [2, 4, 6]
- c) [1, 2, 3, 2]
- d) [1, 1, 2, 2, 3, 3]

**Answer:** a) [1, 2, 3, 1, 2, 3]

# What does the \_\_init\_\_ method do in Python classes?

- a) It initializes the class.
- b) It is used to destroy an instance of the class.
- c) It is used to initialize attributes of the class.
- d) It is a method that executes before any other method.

**Answer:** c) It is used to initialize attributes of the class.

```
class A:
    def __init__(self):
        self.counter = 1

    def increase(self):
        self.counter += 1

a = A()
a.increase()
print(a.counter)
```

- a) 0
- b) 1
- c) 2
- d) 3

Answer: c) 2

# What is the purpose of the with statement in Python?

- a) To create a function
- b) To open a file and ensure it gets closed properly
- c) To handle exceptions
- d) To define a class

**Answer:** b) To open a file and ensure it gets closed properly

#### How do you create a generator in Python?

- a) By using the yield keyword
- b) By using the return keyword
- c) By using the generator keyword
- d) By using the next keyword

**Answer:** a) By using the yield keyword

```
def func(x):
    if x % 2 == 0:
        return True
    else:
        return False

result = filter(func, [1, 2, 3, 4])
print(list(result))
```

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- a) [1, 3]
- b) [2, 4]
- c) [1, 2, 3, 4]
- d) [1, 2, 3]

**Answer:** b) [2, 4]

# What will be the output of the following code?

```
x = 5
y = "Hello, World!"
print(x + y)
```

- a) 5Hello, World!
- b) Hello, World!5
- c) TypeError
- d) 5 Hello, World!

Answer: c) TypeErro

# What is the output of the following code?

print(type(5))

- a) <class 'int'>
- b) <class 'float'>
- c) <class 'string'>
- d) <class 'number'>

Answer: a) <class 'int'>

#### What is the output of the following code snippet?

```
def func(x):
  if x % 2 == 0:
    return True
  else:
    return False
```

result = filter(func, [1, 2, 3, 4]) print(list(result))

- a) [1, 3]
- b) [2, 4]
- c) [1, 2, 3, 4]
- d) [1, 2, 3]

**Answer:** b) [2, 4]

What will be the output of the following code?

x = [1, 2, 3]

y = [4, 5, 6]

print(x + y)

- a) [1, 2, 3, 4, 5, 6]
- b) [5, 7, 9]
- c) TypeError
- d) None of the above

**Answer:** a) [1, 2, 3, 4, 5, 6]

What does the following list comprehension produce?

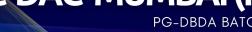
[x\*\*2 for x in range(5)]

- a) [1, 4, 9, 16]
- b) [0, 1, 4, 9, 16]
- c) [0, 1, 2, 3, 4]
- d) [1, 2, 3, 4, 5]

**Answer:** b) [0, 1, 4, 9, 16]

What is the output of the following code snippet involving a lambda function?

a = [(lambda x: x\*\*2)(x) for x in range(5)]print(a) **PYTHON** 



```
a) [1, 4, 9, 16]
b) [0, 1, 4, 9, 16]
c) [0, 1, 2, 3, 4]
d) [1, 2, 3, 4, 5]
Answer: b) [0, 1, 4, 9, 16]
Given the following code, what will be the output?
def foo(x, y=[]):
  y.append(x)
  return y
print(foo(1))
print(foo(2))
a) [1] [2]
b) [1] [1, 2]
c) [1, 2] [1, 2, 2]
d) [1, 2] [1, 2]
Answer: b) [1] [1, 2]
What is the result of the following code?
class A:
  def init (self):
     self._value = 1
  @property
  def value(self):
     return self. value
  @value.setter
  def value(self, val):
     self._value = val
a = A()
a.value = 10
print(a.value)
a) 1
b) 10
c) AttributeError
```

d) None

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Answer: b) 10

What will the following code output?

```
class Parent:
    def __init__(self):
        self.value = 1

class Child(Parent):
    def __init__(self):
        super().__init__()
        self.value = 2

child = Child()
print(child.value)
a) 1
b) 2
c) AttributeError
d) None
Answer: b) 2
```

What will be the output of the following code involving exception handling?

try:
 result = 10 / 0
except ZeroDivisionError:
 result = 'Infinity'
finally:
 result = 'Done'
print(result)
a) Infinity
b) ZeroDivisionError
c) Done
d) None of the above
Answer: c) Done

Answer: b) 10

Which of the following is used to define a block of code in Python?

- a) Curly braces {}
- b) Parentheses ()
- c) Indentation
- d) Square brackets []

Answer: c) Indentation

What is the correct way to create a function in Python?

- a) function myFunction():
- b) def myFunction():
- c) create myFunction():
- d) def myFunction:

**Answer:** b) def myFunction():

What will be the output of the following code?

- a) HelloWorld
- b) Hello World
- c) HelloWorld
- d) "Hello World"

Answer: b) Hello World

# Which of the following is the correct way to import a module in Python?

- a) import module
- b) include module
- c) using module
- d) require module

Answer: a) import module

$$x = 10$$
  
 $y = 2$   
 $print(x // y)$ 

a)	5
αj	J

Answer: a) 5

## Which of the following is a mutable data type in Python?

- a) tuple
- b) list
- c) string
- d) int

Answer: b) list

# How do you start a for loop in Python?

- a) for i in range(10):
- b) for (i = 0; i < 10; i++)
- c) for i = 1 to 10:
- d) foreach i in range(10):

**Answer:** a) for i in range(10):

#### What will be the output of the following code?

$$x = "Python"$$
  
print(x[0])

- a) P
- b) y
- c) n
- d) Error

Answer: a) P

#### Which of the following keywords is used for error handling in Python?

- a) try
- b) catch
- c) throw
- d) except

Answer: a) try

$$x = [1, 2, 3]$$

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```
x.append([4, 5])
print(x)
```

- a) [1, 2, 3, 4, 5]
- b) [1, 2, 3, [4, 5]]
- c) [1, 2, 3, [4], [5]]
- d) Error

**Answer:** b) [1, 2, 3, [4, 5]]

# What will be the output of the following code?

$$x = \{'a': 1, 'b': 2\}$$
  
 $x['c'] = 3$   
print(x)

- a) {'a': 1, 'b': 2, 'c': 3}
- b) {'a': 1, 'b': 2}
- c) {'c': 3}
- d) {'a': 1, 'b': 2, 'c': 3, 'd': 4}

**Answer:** a) {'a': 1, 'b': 2, 'c': 3}

#### What is the output of the following code?

def foo(x, y=5):  
return 
$$x + y$$

print(foo(3))

- a) 8
- b) 15
- c) 3
- d) TypeError

Answer: a) 8

#### What will be the output of the following code?

$$x = [1, 2, 3]$$

x.extend([4, 5])

print(x)

a) [1, 2, 3, 4, 5]

- b) [1, 2, 3, [4, 5]]
- c) [1, 2, 3, [4], [5]]
- d) Error

**Answer:** a) [1, 2, 3, 4, 5]

# Which of the following statements is true about sets in Python?

- a) Sets are mutable and allow duplicate elements.
- b) Sets are immutable and allow duplicate elements.
- c) Sets are mutable and do not allow duplicate elements.
- d) Sets are immutable and do not allow duplicate elements.

**Answer:** c) Sets are mutable and do not allow duplicate elements.

#### What is the output of the following code?

x = [1, 2, 3, 4, 5]

print(x[1:4])

a) [1, 2, 3]

b) [2, 3, 4]

c) [1, 2, 3, 4]

d) [2, 3, 4, 5]

**Answer:** b) [2, 3, 4]

## What will be the output of the following code?

x = 10

y = 20

x, y = y, x

print(x, y)

- a) 10 20
- b) 20 10
- c) 20 20
- d) 10 10

**Answer:** b) 20 10

#### What is the output of the following code snippet?

def make account(balance):

def account(action, amount=0):

nonlocal balance

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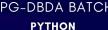
```
if action == "withdraw":
       balance -= amount
     elif action == "deposit":
       balance += amount
     return balance
  return account
a = make account(100)
print(a("withdraw", 10))
print(a("deposit", 20))
a) 90, 110
b) 90, 100
c) 90, 120
d) 100, 110
Answer: a
What is the output of the following code snippet?
class MyClass:
  def init (self):
     self.value = 0
  def increment(self):
     self.value += 1
a = MyClass()
b = a
b.increment()
print(a.value)
a) 0
b) 1
c) TypeError
d) AttributeError
Answer: b) 1
What is the output of the following code snippet?
def func(a, b=[]):
  b.append(a)
```

return b



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```
x = func(1)
y = func(2)
print(x, y)
a) [1] [2]
b) [1] [1, 2]
c) [1, 2] [2]
d) [1, 2] [1, 2]
Answer: d) [1, 2] [1, 2]
What is the output of the following code snippet?
def func(x, y):
  x += y
  return x
a = (1, 2)
b = (3, 4)
print(func(a, b))
a) (1, 2, 3, 4)
b) (4, 6)
c)(1,2)
d) (1, 2, (3, 4))
Answer: a) (1, 2, 3, 4)
What will be the output of the following code snippet?
class A:
  def init (self, x):
     self.x = x
class B(A):
  def __init__(self, x, y):
     super(). init (x)
     self.y = y
obj = B(1, 2)
print(obj.x, obj.y)
a) 12
b) 2 1
c) AttributeError
d) TypeError
```



Answer: a) 12

```
What is the output of the following code snippet?
def func():
  try:
     return 1
  finally:
     return 2
print(func())
python
a) 1
b) 2
c) None
d) Error
Answer: b) 2
What is the output of the following code snippet?
x = [1, 2, 3]
y = [4, 5]
z = x + y
y.extend(x)
print(z)
print(y)
python
a) [1, 2, 3, 4, 5], [4, 5, 1, 2, 3]
b) [4, 5, 1, 2, 3], [1, 2, 3, 4, 5]
c) [1, 2, 3, 4, 5], [1, 2, 3, 4, 5]
d) [4, 5], [1, 2, 3, 4, 5]
Answer: a) [1, 2, 3, 4, 5], [4, 5, 1, 2, 3]
What will be the output of the following code?
def add(a, b):
  return a + b
def subtract(a, b):
  return a - b
```

ops = {'+': add, '-': subtract}



return inner

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```
op = '+'
a = 10
b = 5
print(ops[op](a, b))
a) 5
b) 15
c) Error
d) None
Answer: b) 15
What is the output of the following code snippet?
def f1():
  return 1, 2, 3
a, b, c = f1()
print(a, b, c)
a) (1, 2, 3)
b) 1, 2, 3
c) [1, 2, 3]
d) 1 2 3
Answer: d) 1 2 3
What is the output of the following code snippet?
def func(a, b):
  return a * b
print(func('Hello', 3))
a) Hello
b) HelloHelloHello
c) TypeError
d) None
Answer: b) HelloHelloHello
What is the output of the following code snippet?
def outer(x):
  def inner(y):
     return x + y
```

```
add five = outer(5)
print(add five(10))
a) 10
b) 15
c) 5
d) 50
Answer: b) 15
What is the output of the following code snippet?
def func(a, b=2, c=3):
  return a + b + c
print(func(1, c=4))
a) 6
b) 7
c) 9
d) TypeError
Answer: b) 7
What is the output of the following code snippet?
def func(x, lst=[]):
  lst.append(x)
  return 1st
print(func(1))
print(func(2))
print(func(3, []))
a) [1], [1, 2], [3]
b) [1], [2], [3]
c) [1], [2], [1, 2, 3]
d) [1], [1, 2], [3, 2]
Answer: a) [1], [1, 2], [3]
What is the output of the following code snippet?
def f(x, L=[]):
```

L.append(x) return L



d) Error Error

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```
print(f(1))
print(f(2))
print(f(3, [0]))
print(f(4))
a) [1], [2], [0, 3], [4]
b) [1], [1, 2], [0, 3], [1, 2, 4]
c) [1], [1, 2], [0, 3], [4]
d) [1], [2], [0, 3], [4]
Answer: c) [1], [1, 2], [0, 3], [4]
What is the output of the following code snippet?
def func(a, b):
  return a + b
print(func(*[1, 2]))
a) 1
b) 2
c) 3
d) TypeError
Answer: c) 3
What is the output of the following code snippet?
class A:
  def init (self):
     self. value = 1
  @property
  def value(self):
     return self._value
a = A()
print(a.value)
a.value = 10
print(a.value)
a) 1 10
b) 10 10
c) 1 Error
```

Answer: c) 1 Error

```
What is the output of the following code snippet?
```

```
class A:
    def __init__(self, x):
        self.x = x

def __call__(self, y):
    return self.x + y

a = A(10)
print(a(20))

a) 10
b) 20
c) 30
d) Error

Answer: c) 30
```

### What will be the output of the following code?

```
class A:
    def __init__(self):
        self.__private = 1
    def get_private(self):
        return self.__private

a = A()
print(a.get_private())

a) 1
b) AttributeError
c) None
d) SyntaxError
Answer: a) 1
```

```
class A:
    def __init__(self):
        self.__private = 1
```

```
a = A()
print(a.__private)
a) 1
b) AttributeError
c) None
d) SyntaxError
Answer: b) AttributeError
What will be the output of the following code?
class A:
  def init (self, x):
     self.x = x
class B(A):
  def init (self, x, y):
     super(). init (x)
     self.y = y
b = B(10, 20)
print(b.x, b.y)
a) 10, 20
b) 20, 10
c) AttributeError
d) None
Answer: a) 10, 20
What will be the output of the following code?
```

```
class A:
  def method(self):
     print("A")
class B(A):
  def method(self):
     print("B")
b = B()
b.method()
a) A
```

b) B

```
c) AttributeError
```

d) None

Answer: b) B

```
What will be the output of the following code?
```

```
def outer():
    x = 10
    def inner():
        nonlocal x
        x += 1
        return x
    return inner

f = outer()
print(f())

a) 11
b) 10
c) SyntaxError
d) None
```

Answer: a) 11

def outer():

# What will be the output of the following code?

```
x = 10
def inner():
x = 20
return x
return inner

f = outer()
print(f())

a) 10
b) 20
c) SyntaxError
d) None

Answer: b) 20
```

```
def f(a, L=[]):
   L.append(a)
```

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```
return L
```

a) 1 2 3

```
print(f(1))
print(f(2))
print(f(3))
a) [1], [2], [3]
b) [1], [1, 2], [1, 2, 3]
c) [1], [1], [1]
d) None of the above
Answer: b) [1], [1, 2], [1, 2, 3]
What will be the output of the following code?
def f(a, L=None):
  if L is None:
     L = []
  L.append(a)
  return L
print(f(1))
print(f(2))
print(f(3))
python
a) [1], [2], [3]
b) [1], [1, 2], [1, 2, 3]
c) [1], [1], [1]
d) None of the above
Answer: a) [1], [2], [3]
What will be the output of the following code?
def generator():
  yield 1
  yield 2
  yield 3
g = generator()
print(next(g))
print(next(g))
print(next(g))
```

```
b) 1 1 1
```

- c) SyntaxError
- d) None of the above

**Answer:** a) 1 2 3

```
def generator():
  yield 1
  yield 2
  yield 3
g = generator()
for value in g:
  print(value)
a) 123
b) 1 1 1
c) SyntaxError
d) None of the above
Answer: a) 1 2 3
What will be the output of the following code?
def make multiplier of(n):
  def multiplier(x):
     return x * n
  return multiplier
times3 = make multiplier of(3)
print(times3(9))
a) 27
b) 9
c) 3
d) None of the above
Answer: a) 27
What will be the output of the following code?
def make multiplier of(n):
  def multiplier(x):
     return x * n
  return multiplier
```

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```
times3 = make multiplier of(3)
times5 = make multiplier of(5)
print(times3(9))
print(times5(3))
a) 27 15
b) 9 5
c) 3 5
d) None of the above
Answer: a) 27 15
```

## What will be the output of the following code?

```
class A:
  def init (self):
     self. value = 1
  @property
  def value(self):
     return self. value
  @value.setter
  def value(self, val):
     self. value = val
a = A()
a.value = 10
print(a.value)
a) 1
b) 10
c) AttributeError
d) None
Answer: b) 10
```

```
class A:
  def init (self):
    self.\_value = 1
```

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```
def value(self):
     return self. value
a = A()
a.value = 10
print(a.value)
a) 1
b) 10
c) AttributeError
d) None
Answer: c) AttributeError
What will be the output of the following code?
class Parent:
  def init (self):
     self.value = 1
class Child(Parent):
  def init (self):
     super(). init ()
     self.value = 2
child = Child()
print(child.value)
a) 1
b) 2
c) AttributeError
d) None
Answer: b) 2
What will be the output of the following code?
class Parent:
  def __init__(self):
     self.value = 1
class Child(Parent):
```

@property

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```
def init (self):
     self.value = 2
child = Child()
print(child.value)
a) 1
b) 2
c) AttributeError
d) None
Answer: b) 2
What will be the output of the following code?
def foo(x):
  yield from range(x, 0, -1)
for i in foo(5):
  print(i)
a) 5 4 3 2 1
b) 4 3 2 1 0
c) 5 4 3 2 1 0
d) 4 3 2 1
Answer: a) 5 4 3 2 1
What will be the output of the following code?
def foo(x):
  yield from range(x)
for i in foo(5):
  print(i)
python
a) 0 1 2 3 4
b) 1 2 3 4 5
c) 5 4 3 2 1
d) 4 3 2 1 0
Answer: a) 0 1 2 3 4
```

What will be the output of the following code?

class A:

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```
def __init__(self, value):
    self.value = value

def __add__(self, other):
    return A(self.value + other.value)

a = A(1)
b = A(2)
c = a + b
print(c.value)

a) 1
b) 2
c) 3
d) TypeError
Answer: c) 3
```

## What will be the output of the following code?

```
class A:

def __init__(self, value):

self.value = value

def __add__(self, other):

return A(self.value + other.value)

a = A(1)
b = A(2)
c = a + b
d = c + a
print(d.value)

a) 1
b) 2
c) 3
d) 4

Answer: d) 4
```

What will be the output of the following code?

class A:

```
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```

```
def init (self, value):
     self.value = value
  def add (self, other):
     return A(self.value + other.value)
a = A(1)
b = A(2)
c = a + b
d = c + c
print(d.value)
a) 1
b) 2
c) 3
d) 6
Answer: d) 6
class A:
```

## What will be the output of the following code?

```
def init (self, value):
     self.value = value
  def mul (self, other):
     return A(self.value * other.value)
a = A(2)
b = A(3)
c = a * b
print(c.value)
a) 6
b) 5
c) 2
d) 3
Answer: a) 6
```

```
class A:
  def init (self, value):
     self.value = value
```

```
def sub (self, other):
     return A(self.value - other.value)
a = A(5)
b = A(3)
c = a - b
print(c.value)
a) 2
b) 3
c) 5
d) -2
Answer: a) 2
What will be the output of the following code?
class A:
  def init (self, value):
     self.value = value
  def __truediv__(self, other):
     return A(self.value / other.value)
a = A(6)
b = A(3)
c = a / b
print(c.value)
a) 2.0
b) 2
c) 3
d) 1
Answer: a) 2.0
What will be the output of the following code?
class A:
  def __init__(self, value):
     self.value = value
  def __floordiv__(self, other):
```

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return A(self.value // other.value)

```
a = A(7)
```

$$b = A(3)$$

$$c = a // b$$

print(c.value)

- a) 2
- b) 2.0
- c) 3
- d) 1

Answer: a) 2

## What will be the output of the following code?

def func(x):

return 
$$x \% 2 == 0$$

result = filter(func, [1, 2, 3, 4, 5, 6])

print(list(result))

- a) [2, 4, 6]
- b) [1, 3, 5]
- c) [2, 4]
- d) [1, 2, 3, 4, 5, 6]

**Answer:** a) [2, 4, 6]

#### What will be the output of the following code?

def func(x):

return x 
$$\%$$
 2 == 0

result = map(func, [1, 2, 3, 4, 5, 6]) print(list(result))

- a) [False, True, False, True, False, True]
- b) [1, 2, 3, 4, 5, 6]
- c) [2, 4, 6]
- d) [1, 3, 5]

**Answer:** a) [False, True, False, True, False, True]

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# What will be the output of the following code?

```
def func(x, y):
    return x + y

from functools import reduce
result = reduce(func, [1, 2, 3, 4, 5])
print(result)

a) 15
b) 10
c) 5
d) 0

Answer: a) 15
```

# What will be the output of the following code?

```
def func(x, y):
    return x + y

from functools import reduce
result = reduce(func, [1, 2, 3, 4, 5], 10)
print(result)
a) 25
b) 20
c) 15
d) 10
Answer: a) 25
```

```
def func(x):
return x % 2 == 0

result = [i for i in [1, 2, 3, 4, 5, 6] if func(i)]
print(result)

a) [2, 4, 6]
b) [1, 3, 5]
c) [2, 4]
d) [1, 2, 3, 4, 5, 6]
```

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**Answer:** a) [2, 4, 6]

# What will be the output of the following code?

```
class A:

def __init__(self, value):

self.value = value

def __repr__(self):

return f"A({self.value})"

a = A(1)
b = A(2)
print(a, b)

a) A(1) A(2)
b) 1 2
c) Error
d) None of the above

Answer: a) A(1) A(2)
```

#### What will be the output of the following code?

```
class A:

def __init__(self, value):

self.value = value

def __str__(self):

return f"A({self.value})"

a = A(1)
b = A(2)
print(a, b)

a) A(1) A(2)
b) 1 2
c) Error
d) None of the above

Answer: a) A(1) A(2)
```

**PYTHON** 

```
class A:
  def init (self, value):
     self.value = value
  def __repr__(self):
     return f"A({self.value})"
  def __str__(self):
     return f"A({self.value})"
a = A(1)
b = A(2)
print(a, b)
a) A(1) A(2)
b) 12
c) Error
d) None of the above
Answer: a) A(1) A(2)
```

## What will be the output of the following code?

```
class A:
  def init (self, value):
     self.value = value
  def eq (self, other):
     return self.value == other.value
a = A(1)
b = A(1)
print(a == b)
a) True
b) False
c) Error
d) None of the above
Answer: a) True
```

# What will be the output of the following code?

for i in range(5):

## print(i)

- a) 1 2 3 4 5
- b) 0 1 2 3 4
- c) 1 2 3 4
- d) 0 1 2 3 4 5

**Answer:** b) 0 1 2 3 4

# What does the following code do?

```
for i in range(3):
    print("Hello")
```

- a) Prints "Hello" once
- b) Prints "Hello" twice
- c) Prints "Hello" thrice
- d) Prints "Hello" four times

Answer: c) Prints "Hello" thrice

# What will be the output of the following code?

```
for i in range(1, 10, 2):
print(i, end=' ')

a) 1 3 5 7 9
b) 1 2 3 4 5 6 7 8 9
c) 1 3 5 7
d) 2 4 6 8 10
```

**Answer:** a) 1 3 5 7 9

#### What will be the output of the following code?

```
for i in range(5):
    for j in range(i):
        print(j, end=' ')
    print()

        a) 0
        0 1
        0 1 2
        0 1 2 3
```

b) 1

```
1 2
123
```

## Answer: d) 0

# What will be the output of the following code?

# What will be the output of the following code?

Answer: a) Python

$$sum = 0$$

$$sum += i$$

**PYTHON** 

- a) 45
- b) 50
- c) 55
- d) 60

Answer: a) 45

# What will be the output of the following code?

```
for i in range(5):
  if i == 3:
     break
  print(i, end=' ')
        a) 0 1 2 3
        b) 0 1 2
        c) 1 2 3
        d) 0 1 2 3 4
        Answer: b) 0 1 2
```

# What will be the output of the following code?

```
for i in range(5):
  if i \% 2 == 0:
     continue
  print(i, end=' ')
        a) 0 1 2 3 4
        b) 13
        c) 0 2 4
        d) 1 2 3
        Answer: b) 1 3
```

```
for i in range(3, 10, 2):
  print(i, end=' ')
        a) 3 4 5 6 7 8 9
        b) 3 5 7 9
        c) 3 6 9
        d) 4 6 8 10
        Answer: b) 3 5 7 9
```

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# What will be the output of the following code?

```
i = 0

while i < 5:

print(i)

i += 1

a) 1 2 3 4 5

b) 0 1 2 3 4 5

c) 0 1 2 3 4

d) 1 2 3 4

Answer: c) 0 1 2 3 4
```

# What will be the output of the following code?

```
i = 1
while i < 10:
if i % 3 == 0:
break
print(i, end=' ')
i += 1

a) 1 2 3
b) 1 2
c) 1 2 3 4 5 6 7 8 9
d) 1 2 4
Answer: b) 1 2
```

#### What will be the output of the following code?

```
i = 0
while i < 5:
    i += 1
    if i == 3:
        continue
    print(i, end=' ')

    a) 1 2 3 4 5
    b) 0 1 2 4 5
    c) 1 2 4 5
    d) 0 1 2 3 5
    Answer: c) 1 2 4 5</pre>
```

#### What will be the output of the following code?

i = 10

```
while i > 0:
  print(i, end=' ')
  i = 2
        a) 10 8 6 4 2 0
        b) 10 8 6 4 2
        c) 9 7 5 3 1
        d) 8 6 4 2 0
        Answer: b) 10 8 6 4 2
```

#### What will be the output of the following code?

```
count = 0
while count < 3:
  print("Hello")
  count += 1
        a) Prints "Hello" twice
        b) Prints "Hello" three times
        c) Prints "Hello" once
        d) Prints "Hello" four times
        Answer: b) Prints "Hello" three times
```

#### What will be the output of the following code?

```
i = 0
while i < 4:
  print(i, end=' ')
  i += 2
        a) 0 2 4
        b) 0 2
        c) 24
        d) 0 1 2 3
        Answer: b) 0 2
```

```
i = 5
while i:
  print(i, end=' ')
  i = 1
```

```
a) 5 4 3 2 1 0
b) 4 3 2 1 0
c) 5 4 3 2 1
d) 5 4 3 2 1 0 -1
Answer: c) 5 4 3 2 1
```

#### What will be the output of the following code?

```
num = 0
while num < 6:
  num += 1
  if num == 3:
    continue
  print(num, end=' ')
       a) 1 2 3 4 5 6
       b) 1 2 4 5 6
       c) 0 1 2 4 5
        d) 1245
        Answer: b) 1 2 4 5 6
```

#### What will be the output of the following code?

```
x = 0
while (x < 7):
  if (x == 5):
    break
  print(x, end=' ')
  x += 1
        a) 0 1 2 3 4 5
        b) 0 1 2 3 4
        c) 1 2 3 4 5 6
        d) 1 2 3 4
        Answer: b) 0 1 2 3 4
```

```
x = 1
while x < 4:
  print(x, end=' ')
  x += 1
else:
  print("End")
```

- a) 123
- b) 1 2 3 End
- c) 1 2 End
- d) End

Answer: b) 1 2 3 End

#### What will be the output of the following code?

```
x = 10
if x < 10:
  print("Less than 10")
elif x == 10:
  print("Equal to 10")
else:
  print("Greater than 10")
```

- a) Less than 10
- b) Equal to 10
- c) Greater than 10
- d) None of the above

**Answer:** b) Equal to 10

#### What will be the output of the following code?

```
x = 5
if x > 10:
  print("Greater than 10")
elif x > 5:
  print("Greater than 5")
  print("5 or less")
```

- a) Greater than 10
- b) Greater than 5
- c) 5 or less
- d) None of the above

Answer: c) 5 or less

```
x = 10
if x > 10:
  print("Above ten")
else:
  print("Below or equal to ten")
```

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- a) Above ten
- b) Below or equal to ten
- c) Above ten Below or equal to ten
- d) None of the above

**Answer:** b) Below or equal to ten

#### What will be the output of the following code?

```
x = 0
if x:
    print("True")
else:
    print("False")

a) True
    b) False
    c) Error
    d) None of the above
    Answer: b) False
```

#### What will be the output of the following code?

```
x = 15
if x > 10 and x < 20:
    print("Between 10 and 20")
else:
    print("Not between 10 and 20")</pre>
```

- a) Between 10 and 20
- b) Not between 10 and 20
- c) Error
- d) None of the above

Answer: a) Between 10 and 20

```
x = 5
if x % 2 == 0:
    print("Even")
else:
    print("Odd")

a) Even
b) Odd
```

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```
c) Error
```

d) None of the above **Answer:** b) Odd

#### What will be the output of the following code?

```
a = 5
b = 10
if a + b > 10:
print("Greater")
elif a + b == 10:
print("Equal")
else:
print("Lesser")
a) Greater
b) Equal
c) Lesser
d) None of the above
Answer: a) Greater
```

#### What will be the output of the following code?

```
x = 10
if x < 20:
    print("Less than 20")
if x < 15:
    print("Less than 15")
if x < 10:
    print("Less than 10")

a) Less than 20
    b) Less than 20 Less than 15
    c) Less than 20 Less than 15 Less than 10
    d) None of the above
    Answer: b) Less than 20 Less than 15</pre>
```

```
x = 20
if x < 25:
    if x > 15:
        print("Between 15 and 25")
else:
    print("Outside range")
```

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- a) Between 15 and 25
- b) Outside range
- c) Error
- d) None of the above

Answer: a) Between 15 and 25

#### What will be the output of the following code?

```
x = 8
if x > 5:
  print("Greater than 5")
  if x < 10:
    print("Less than 10")

  a) Greater than 5
  b) Less than 10
  c) Greater than 5 Less than 10
  d) None of the above
  Answer: c) Greater than 5 Less than 10</pre>
```

#### What will be the output of the following code?

```
for i in range(3):
for j in range(2):
print(i, j)

a) 0 0

0 1

1 0

1 1

2 0

2 1

b) 0 1

1 0

1 1

2 0

2 1

2 1
```

```
d) 0 0
0 1
10
11
Answer: a) 0 0
0 1
10
1 1
20
2 1
```

# What will be the output of the following code?

```
for i in range(2):
  for j in range(3):
     print('*', end=' ')
  print()
        a) * * *
         b) * *
         d) *
         Answer: a) * * *
```

# What will be the output of the following code?

```
for i in range(3):
  for j in range(i):
     print(i, j)
        a) 0 0
        10
        1 1
        20
        2 1
        22
        b) 10
        20
```

\* \* \*

# What will be the output of the following code?

1 1 1

#### What will be the output of the following code?

```
for i in range(1, 4):
  for j in range(1, i+1):
     print('*', end=")
  print()
         a) *
         b) * * *
             0
        c) *
         d) * * *
```

0

0

Answer: a) \*

\*\*

\*\*\*

#### What will be the output of the following code?

```
for i in range(3):
  for j in range(3):
     if i == j:
        print(i, j)
        a) 0 0
        1 1
        2 2
        b) 0 0
        0 1
        02
        10
        11
```

1 2

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#### What will be the output of the following code?

for i in range(4): for j in range(4): if i + j == 3: print(i, j) a) 03 12 2 1 3 0 b) 0 3 1 2 2 1 30 40 c) 13 22 3 1 d) 12 23 3 0 **Answer:** a) 0 3 2 1

3 0

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# What will be the output of the following code?

```
for i in range(2, 4):
for j in range(1, i):
print(i * j, end=' ')

a) 2 3 4
b) 1 2 3
c) 2 4 6
d) 2 2 6
```

**Answer:** d) 2 2 6

### What will be the output of the following code?

```
for i in range(3):
  for j in range(3):
    if i != j:
       print(i, j)
        a) 0 1
        02
        10
        12
       20
        2 1
        b) 0 0
        1 1
       22
        c) 12
        2 1
        d) 0 1
        02
        10
        1 2
        20
       2 1
        3 1
        Answer: a) 0 1
        02
        10
        1 2
        20
```

2 1



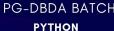
# What will be the output of the following code?

```
for i in range(2):
  for j in range(2):
     print(i, j)
    if j == 1:
       break
        a) 0 0
        0 1
        10
        1 1
        b) 0 0
        10
        c) 0 0
        0 1
        d) 0 0
        0 1
        10
        Answer: d) 0 0
        0 1
        10
```

#### What will be the output of the following code?

```
for i in range(5):
  if i \% 2 == 0:
     print(i, end=' ')
        a) 13
        b) 0 2 4
        c) 24
        d) 1234
        Answer: b) 0 2 4
```

```
for i in range(10):
  if i == 5:
     break
  print(i, end=' ')
        a) 1 2 3 4 5
        b) 0 1 2 3 4
        c) 0 1 2 3
```



```
d) 0 1 2
```

**Answer:** b) 0 1 2 3 4

# What will be the output of the following code?

```
for i in range(5):

if i == 3:

continue

print(i, end=' ')

a) 0 1 2 3 4

b) 0 1 2 3

c) 0 1 2 4

d) 1 2 3 4

Answer: c) 0 1 2 4
```

#### What will be the output of the following code?

```
for i in range(1, 10):

if i % 3 == 0:

print(i, end=' ')

a) 3 6 9

b) 1 2 3 4 5 6 7 8 9

c) 1 2 4 5 7 8

d) 3 6

Answer: a) 3 6 9
```

#### What will be the output of the following code?

```
for i in range(2, 10, 2):

if i > 5:

print(i, end=' ')

a) 2 4 6 8 10
b) 2 4 6 8
c) 6 8
d) 4 6 8

Answer: c) 6 8
```

```
for i in range(1, 4):

for j in range(1, 4):

if i == j:

print(i * j, end=' ')
```



```
a) 123
b) 149
c) 124
d) 139
Answer: b) 1 4 9
```

#### What will be the output of the following code?

```
for i in range(2, 5):
  for j in range(1, 3):
     if i % j == 0:
        print(i, j, end=' ')
        a) 2 1 2 2 3 1 4 1 4 2
        b) 2 1 3 1 4 1
        c) 1 2 3 4 1
        d) 2 2 3 3
        Answer: a) 2 1 2 2 3 1 4 1 4 2
```

#### What will be the output of the following code?

```
for i in range(4):
  for j in range(3):
     if i + j > 3:
       break
     print(i, j, end=' ')
        a) 0 0 0 1 0 2 0 3 1 0 1 1 1 2 2 0 2 1 3 0
        b) 0 0 0 1 0 2 1 0 1 1 2 0 2 1 3 0
        c) 0 0 0 1 0 2 1 0 1 1 2 0 3 0
        d) 0 1 2 0 1 0 2
        Answer: b) 0 0 0 1 0 2 1 0 1 1 2 0 2 1 3 0
```

```
for i in range(1, 5):
  if i \% 2 == 0:
     print(i, end=' ')
  else:
     print(i * 2, end=' ')
         a) 2 4 6 8
         b) 1 2 3 4
```

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```
c) 2 2 6 4
d) 2 4 6
Answer: c) 2 2 6 4
```

#### What will be the output of the following code?

```
for i in range(3):
    for j in range(3):
        if i + j < 2:
        print(i, j, end=' ')

        a) 0 0 0 1 1 0
        b) 0 0 0 1 0 2
        c) 0 1 1 0 1 2
        d) 0 0 0 1

        Answer: d) 0 0 0 0 1
```

#### What will be the output of the following code?

```
x = 10
if x > 5:
    if x > 8:
        print("More than 8")
    else:
        print("8 or less")
a) 8 or less
b) More than 8
c) Error
d) None of the above
Answer: b) More than 8
```

```
x = 5
if x < 10:</li>
if x > 2:
print("Between 2 and 10")
a) Between 2 and 10
b) Error
c) None
d) 2 and 10
Answer: a) Between 2 and 10
```

#### What will be the output of the following code?

```
x = 3
if x \% 2 == 0:
  if x < 5:
     print("Even and less than 5")
  else:
     print("Even and more than 5")
else:
  print("Odd number")
a) Even and less than 5
b) Even and more than 5
c) Odd number
d) Error
Answer: c) Odd number
What will be the output of the following code?
x = 10
if x > 5:
  if x < 20:
     print("Between 5 and 20")
     print("More than 20")
a) Between 5 and 20
b) More than 20
c) Error
```

#### What will be the output of the following code?

```
    x = 2
    if x < 5:</li>
    if x > 1:
    print("Between 1 and 5")
    a) Between 1 and 5
    b) Error
    c) None
    d) 1 and 5
    Answer: a) Between 1 and 5
```

d) None of the above

**Answer:** a) Between 5 and 20

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```
What will be the output of the following code?
```

```
x = 8
if x > 0:
  if x % 2 == 0:
    print("Positive even number")
  else:
    print("Positive odd number")
```

- a) Positive even number
- b) Positive odd number
- c) Error
- d) None of the above

**Answer:** a) Positive even number

#### What will be the output of the following code?

```
x = 3
if x > 0:
  if x % 2 == 0:
    print("Positive even number")
  else:
    print("Positive odd number")
```

- a) Positive even number
- b) Positive odd number
- c) Error
- d) None of the above

**Answer:** b) Positive odd number

#### What will be the output of the following code?

```
x = 7
if x % 2 == 0:
    if x > 5:
        print("Even and more than 5")
    else:
        print("Even and less than 5")
else:
    print("Odd number")
a) Even and more than 5
b) Even and less than 5
c) Odd number
d) Error
```

Answer: c) Odd number

#### What will be the output of the following code?

```
x = 15
if x < 20:
  if x \% 3 == 0:
     print("Divisible by 3")
a) Divisible by 3
b) Error
```

c) None

d) Not Divisible

Answer: a) Divisible by 3

#### What will be the output of the following code?

```
x = 11
if x \% 2 == 0:
  if x < 10:
     print("Even and less than 10")
  else:
     print("Even and more than 10")
else:
  print("Odd number")
a) Even and less than 10
b) Even and more than 10
c) Odd number
d) Error
Answer: c) Odd number
```

#### What will be the output of the following code?

```
for i in range(2, 6):
  print(i, end=' ')
        a) 2 3 4 5
        b) 23456
        c) 1 2 3 4 5
        d) 2 4 6
        Answer: a) 2 3 4 5
```

```
for i in range(1, 10, 2):
  print(i, end=' ')
```

- a) 1 3 5 7 9
- b) 1 2 3 4 5 6 7 8 9
- c) 1 3 5 7
- d) 2468

**Answer:** a) 1 3 5 7 9

#### What will be the output of the following code?

for i in range(5):

```
print(i * i, end=' ')
```

- a) 0 1 4 9 16
- b) 0 2 4 6 8
- c) 0 1 2 3 4
- d) 1 4 9 16 25

**Answer:** a) 0 1 4 9 16

# What will be the output of the following code?

for i in range(3):

print(i, end=' ')

else:

print('End')

- a) 0 1 2
- b) 0 1 2 End
- c) End
- d) 1 2 3 End

Answer: b) 0 1 2 End

#### What will be the output of the following code?

for i in range(4, 1, -1):

- a) 4 3 2 1
- b) 4 3 2
- c) 43
- d) 4 3 2 1 0

**Answer:** b) 4 3 2

#### What will be the output of the following code?

for i in range(3):

- a) 0 0 1 2 2 4
- b) 0 1 2 4 5 10
- c) 0 0 2 4
- d) 0 2 4

**Answer:** a) 0 0 1 2 2 4

# What will be the output of the following code?

for i in range(5, 0, -1): print('\*' \* i)

٠.

a) \*

\*\*

\*\*\*

. . . .

\*\*\*\*

b) \*\*\*\*\*

\*\*\*\*

\*\*\*

٠.

\*

c) \*

\*

\*

.

...

d) \*\*\*\*\*

\*\*\*\*

\*\*\*\*

\*\*\*\*

\*\*\*\*

**Answer:** b) \*\*\*\*\*

\*\*\*\*

\*\*\*

\*\*

\*

# What will be the output of the following code?

for i in range(1, 6):

- a) 3 4 5 6 7
- b) 3 4 5 6
- c) 23456

# What will be the output of the following code?

```
for i in range(3):
    for j in range(2):
        print(i, j, end=' ')

        a) 0 0 0 1 1 0 1 1 2 0 2 1
        b) 0 1 1 2 2 3
        c) 0 0 1 1 2 2
        d) 0 0 1 1 2 2 3 3

        Answer: a) 0 0 0 1 1 0 1 1 2 0 2 1
```

#### What will be the output of the following code?

```
for i in range(4):
for j in range(3):
print(i * j, end=' ')

a) 0 0 0 0 0 0 0 0 0 0 0 0 0
b) 0 0 0 0 1 2 0 2 4 0 3 6
c) 1 2 3 4 5 6 7 8 9
d) 0 0 0 0 1 2 0 2 4

Answer: b) 0 0 0 0 1 2 0 2 4 0 3 6
```

#### What will be the output of the following code?

```
i = 0

while i < 4:

print(i, end=' ')

i += 1

a) 0 1 2

b) 0 1 2 3 4

c) 0 1 2 3

d) 1 2 3 4

Answer: c) 0 1 2 3
```

```
i = 5 while i > 0:
```

```
print(i, end=' ')
i = 1
      a) 5 4 3 2 1
      b) 5 4 3 2 1 0
      c) 4 3 2 1 0
      d) 5 4 3 2 1 0 -1
      Answer: a) 5 4 3 2 1
```

# What will be the output of the following code?

```
i = 1
while i \le 5:
  print(i * i, end=' ')
  i += 1
        a) 1 4 9 16 25
        b) 1 2 3 4 5
        c) 1 2 4 9 16 25
        d) 14916
        Answer: a) 1 4 9 16 25
```

# What will be the output of the following code?

```
i = 0
while i < 3:
  print(i)
  i += 1
else:
  print('End')
        a) 0 1 2
        b) 0 1 2 End
        c) End
        d) 1 2 3 End
        Answer: b) 0 1 2 End
```

```
i = 1
while i \le 4:
  print('*' * i)
  i += 1
         a) *
```

b) ;	***
**	
*	
c) *	*
*	
*	
*	
d) ;	*
**	
_	
An	swer: d) *
**	
***	k
***	**
will	be the output of the following code?
	ge(3):
	ange(2):
	, j, end=' ')
	0 1 1 2 0 2 1
0 1 1	0 1 1 2 0 2 1

# for i in r

```
for j i
     pri
a) 0 0 0
b) 0 1 1 2 2 0
c) 0 0 1 1 2 2
d) 0 1 0 1 0 1
Answer: a) 0 0 0 1 1 0 1 1 2 0 2 1
```

#### What will be the output of the following code?

```
for i in range(2):
  for j in range(2):
     print(i + j, end='')
a) 0 1 1 2
b) 0 1 2 3
c) 1 2 3 4
d) 0 1 1 2
Answer: d) 0 1 1 2
```

#### What will be the output of the following code?

for i in range(3):

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```
for j in range(i):
     print(j, end=' ')
a) 0 0 1 0 1 2
b) 0 1 2
c) 0 0 1
d) 123
Answer: c) 0 0 1
What will be the output of the following code?
for i in range(2):
  for j in range(2):
     print(i * j, end=' ')
a) 0 1 1 2
b) 0 0 0 1
c) 0 1 2 3
d) 0 0 1 1
Answer: b) 0 0 0 1
What will be the output of the following code?
for i in range(2):
  for j in range(2):
     print(i, j)
a) 0 0 0 1 1 0 1 1
b) 0 0 1 0 0 1
c) 1 1 1 1
d) 0 0 0 1 1 0 1 1
Answer: a) 0 0 0 1 1 0 1 1
What will be the output of the following code?
for i in range(2):
  for j in range(2):
```

if i == j: print(i, j)

**Answer:** a) 0 0 1 1

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```
What will be the output of the following code?
```

```
for i in range(2):
    for j in range(2):
        if i != j:
        print(i, j)
a) 0 1 1 0
b) 0 0 1 1
c) 1 1
d) 0 0

Answer: a) 0 1 1 0
```

#### What will be the output of the following code?

```
for i in range(3):
  for j in range(3):
    if i + j < 3:
       print(i, j, end=' ')
a) 0 0 0 1 0 2 1 0 1 1 1 2
b) 0 0 0 1 1 0 1 1
c) 0 0 0 1 1 0 2 0 2 1
d) 0 0 0 1 1 0
Answer: d) 0 0 0 1 1 0
What will be the output of the following code?
for i in range(2):
  for j in range(2):
    for k in range(2):
       print(i, j, k, end=' ')
b) 0 0 0 0 1 0 1 1 0 1 0 1 1
c) 0 1 1 1 1 0 1 1 0 0
d) 0 0 0 1 1 1
Answer: a) 0 0 0 0 0 1 0 1 0 0 1 1 1 0 0 1 0 1 1 1
```

```
for i in range(2):
    for j in range(2):
        if i == 0 and j == 1:
            break
        print(i, j, end=' ')
a) 0 0
b) 0 0 1 0
```

Answer: a) 0 0

#### What will be the output of the following code?

```
x = 5
if x > 3:
  print("Greater than 3")
a) Greater than 3
b) 3
```

c) 5

d) None

Answer: a) Greater than 3

#### What will be the output of the following code?

```
x = 2
if x < 3:
  print("Less than 3")
b) Less than 3
c) 2
```

d) None

Answer: b) Less than 3

#### What will be the output of the following code?

```
x = 10
if x == 10:
  print("Equal to 10")
a) 10
b) Equal to 10
c) 1
d) None
Answer: b) Equal to 10
```

```
x = 7
if x != 5:
  print("Not equal to 5")
a) 5
b) 7
c) Not equal to 5
```

```
d) None
```

d) Error

```
Answer: c) Not equal to 5
```

#### What will be the output of the following code?

```
x = 4
if x >= 4:
  print("Greater than or equal to 4")
b) Greater than or equal to 4
c) None
```

Answer: b) Greater than or equal to 4

#### What will be the output of the following code?

```
x = 6
if x \le 6:
  print("Less than or equal to 6")
b) Less than or equal to 6
c) None
d) Error
Answer: b) Less than or equal to 6
What will be the output of the following code?
x = 8
if x > 7:
  print("Greater than 7")
else:
  print("Not greater than 7")
a) Greater than 7
b) Not greater than 7
c) 7
```

# What will be the output of the following code?

```
x = 3
if x < 5:
  print("Less than 5")
else:
  print("Not less than 5")
```

**Answer:** a) Greater than 7

d) 8

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```
a) Less than 5
```

- b) Not less than 5
- c) 3
- d) 5

**Answer:** a) Less than 5

#### What will be the output of the following code?

```
x = 10
if x == 10:
    print("Exactly 10")
else:
    print("Not exactly 10")
a) Exactly 10
b) Not exactly 10
c) 10
d) None
Answer: a) Exactly 10
```

#### What will be the output of the following code?

```
x = 9
if x != 8:
    print("Not 8")
else:
    print("8")
a) Not 8
b) 8
c) 9
d) None
Answer: a) Not 8
```

```
i = 1

while i <= 5:

print(i, end=' ')

i += 1

a) 1 2 3 4 5

b) 1 2 3 4 5 6

c) 1 2 3 4
```



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d) 23456

**Answer:** a) 1 2 3 4 5

#### What will be the output of the following code?

```
i = 0
while i < 3:
    print("Python", end=' ')
    i += 1</li>
a) Python
b) Python Python Python
c) Python Python Python Python
Answer: b) Python Python Python
```

#### What will be the output of the following code?

```
i = 3

while i > 0:

print(i, end=' ')

i -= 1

a) 3 2 1

b) 1 2 3

c) 3 2 1 0

d) 3 2 1 0 -1

Answer: a) 3 2 1
```

#### What will be the output of the following code?

```
i = 1
while i <= 5:
    if i % 2 == 0:
        print(i, end=' ')
    i += 1
a) 1 2 3 4 5
b) 2 4
c) 2 4 6
d) 1 3 5
Answer: b) 2 4
```



```
while i > 0:
  print(i)
  i = 1
a) 5 4 3 2 1
b) 1 2 3 4 5
c) 5 4 3 2 1 0
d) 0 1 2 3 4 5
Answer: a) 5 4 3 2 1
```

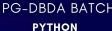
### What will be the output of the following code?

```
i = 0
while i < 5:
  print(i, end=' ')
  i += 2
a) 0 1 2 3 4
b) 0 2 4
c) 0 2 4 6
d) 1 3 5
Answer: b) 0 2 4
```

#### What will be the output of the following code?

```
i = 10
while i \ge 5:
  print(i, end=' ')
  i = 1
a) 10 9 8 7 6
b) 10 9 8 7 6 5
c) 10 9 8 7 6 5 4
d) 5 6 7 8 9 10
Answer: b) 10 9 8 7 6 5
```

```
i = 1
while i < 4:
  print(i)
  i += 1
a) 1 2 3
b) 1 2 3 4
c) 1 2 3 4 5
```



```
d) 12
```

**Answer:** a) 1 2 3

#### What will be the output of the following code?

```
i = 2

while i <= 8:

print(i, end=' ')

i += 2

a) 2 4 6 8

b) 2 4 6 8 10

c) 1 3 5 7 9

d) 2 3 4 5 6 7 8

Answer: a) 2 4 6 8
```

#### What will be the output of the following code?

```
i = 0

while i < 5:

if i % 2 != 0:

print(i, end=' ')

i += 1

a) 1 3

b) 0 2 4

c) 1 2 3

d) 1 3 5

Answer: a) 1 3
```

# What will be the output of the following code?

```
for i in range(1, 6):
    print(i, end=' ')
a) 1 2 3 4 5
b) 0 1 2 3 4
c) 1 2 3 4 5 6
d) 2 3 4 5 6
Answer: a) 1 2 3 4 5
```

```
for i in range(5, 0, -1): print(i, end=' ')
```



- a) 1 2 3 4 5
- b) 5 4 3 2 1
- c) 5 4 3 2 1 0
- d) 0 1 2 3 4 5

**Answer:** b) 5 4 3 2 1

#### What will be the output of the following code?

```
for i in range(2, 7, 2):
  print(i, end=' ')
```

- a) 2 4 6 8
- b) 246
- c) 2 4 6 7
- d) 1 2 3 4 5 6

**Answer:** b) 2 4 6

#### What will be the output of the following code?

for i in range(3):

print("Hello")

a) Hello

Hello

Hello

- b) Hello
- c) Hello Hello Hello
- d) None

Answer: a) Hello

Hello

Hello

#### What will be the output of the following code?

sum = 0

for i in range(1, 5):

sum += i

print(sum)

- a) 15
- b) 10
- c) 11
- d) 9

Answer: b) 10

#### What will be the output of the following code?

product = 1

```
for i in range(1, 5):
  product *= i
print(product)
a) 10
b) 24
c) 15
d) 20
Answer: b) 24
What will be the output of the following code?
for i in range(3):
  for j in range(2):
     print(i, j, end=' ')
a) 0 0 0 1 1 0 1 1 2 0 2 1
b) 0 1 1 2 2 0
c) 0 0 1 1 2 2
d) 0 1 0 1 0 1
Answer: a) 0 0 0 1 1 0 1 1 2 0 2 1
What will be the output of the following code?
for i in range(5):
  if i \% 2 == 0:
     print(i, end=' ')
a) 0 2 4
b) 1 3 5
c) 1 2 3 4
d) 0 1 2 3 4
Answer: a) 0 2 4
What will be the output of the following code?
```

```
result = 0
for i in range(1, 6):
  result += i
print(result)
a) 10
b) 15
c) 20
d) 21
Answer: b) 15
```

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#### What will be the output of the following code?

for i in range(2, 10, 2):

print(i, end=' ')

- a) 2 4 6 8 10
- b) 2 4 6 8
- c) 13579
- d) 2 4 6 8 9

**Answer:** b) 2 4 6 8

### What will be the output of the following code?

for i in range(5):

if i % 2 == 0:

print(i, end=' ')

- a) 0 1 2 3 4
- b) 1 3 5
- c) 0 2 4
- d) 24

**Answer:** c) 0 2 4

#### What will be the output of the following code?

for i in range(5):

if i % 2 != 0:

print(i, end=' ')

- a) 0 2 4
- b) 13
- c) 0 1 2 3 4
- d) 135

**Answer:** b) 1 3

#### What will be the output of the following code?

for i in range(5):

- a) 13
- b) 0 2 4
- c) 1 2 3
- d) 0 1 2 3 4

**Answer:** a) 1 3

#### What will be the output of the following code?

for i in range(5):

if i 
$$\%$$
 2 == 0:

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```
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```

```
print(i, end=' ')
else:
print("Odd", end=' ')
a) 0 2 4
b) 0 Odd 2 Odd 4
c) 0 1 2 3 4
d) Odd Odd Odd
Answer: b) 0 Odd 2 Odd 4
```

### What will be the output of the following code?

```
for i in range(1, 6):

if i % 3 == 0:

print(i, end=' ')

a) 1 2 3 4 5

b) 1 2 4 5

c) 3 6

d) 3

Answer: d) 3
```

#### What will be the output of the following code?

```
for i in range(1, 10):

if i % 3 == 0:

print(i, end=' ')

a) 1 2 4 5 7 8

b) 1 3 5 7 9

c) 3 6 9

d) 2 4 6 8

Answer: c) 3 6 9
```

```
for i in range(1, 10):

if i % 4 == 0:

print(i, end=' ')

a) 4 8

b) 3 6 9

c) 4 6 8

d) 2 4 6 8

Answer: a) 4 8
```

# What will be the output of the following code?

```
for i in range(10):
    if i % 2 == 0 and i % 3 == 0:
        print(i, end=' ')
a) 0 2 3 4 6
b) 2 4 6 8
c) 0 6
d) 3 6 9

Answer: c) 0 6
```

#### What will be the output of the following code?

```
for i in range(1, 10):

if i % 5 == 0:

print(i, end=' ')

a) 5 10

b) 5

c) 5 6

d) 6 7 8

Answer: b) 5
```

#### What will be the output of the following code?

```
for i in range(1, 10):

if i % 7 == 0:

print(i, end=' ')

a) 7

b) 5 7

c) 7 8

d) 5 6

Answer: a) 7
```

#### Python is known as:

A compiled language

An interpreted language

A machine language

An assembly language

#### Is Python code compiled or interpreted?

# a) Python code is both compiled and interpreted

- b) Python code is neither compiled nor interpreted
- c) Python code is only compiled
- d) Python code is only interpreted

What will be the value of the following Python expression?

4+3%5

a) 7

b) 2

c) 4

d) 1

What will be the output of the following Python code?

i = 1while True: if i%3 == 0: break print(i) i + = 1a) 1 2 3 b) error

c) 12

d) none of the mentioned

What will be the output of the following Python code snippet if x=1?

x << 2

a) 4

b) 2

c) 1

d) 8

Ans: a

What are the values of the following Python expressions?

```
2**(3**2)
(2**3)**2
2**3**2
a) 512, 64, 512
b) 512, 512, 512
c) 64, 512, 64
d) 64, 64, 64
Answer: a
```

### What will be the output of the following Python code?

```
l=[1, 0, 2, 0, 'hello', ", []]
list(filter(bool, l))
a) [1, 0, 2, 'hello', ", []]
b) Error
c) [1, 2, 'hello']
d) [1, 0, 2, 0, 'hello', ", []]
Answer: c
```

#### The following python program can work with \_\_\_\_ parameters.

```
def f(x):
  def f1(*args, **kwargs):
      print("Sanfoundry")
      return x(*args, **kwargs)
  return f1
a) any number of
b) 0
c) 1
d) 2
```

Answer: a

#### What will be the output of the following Python function?

```
min(max(False,-3,-4), 2,7)
```

- a) -4
- b) -3
- c) 2
- d) False

Answer: d

#### What will be the output of the following Python function?

# len(["hello",2, 4, 6]) a) Error b) 6 c) 4 d) 3

Answer: c

#### What will be the output of the following Python code?

```
x = 'abcd'
for i in x:
    print(i.upper())
a)

a
B
C
D
b) a b c d
c) error
d)

A
B
C
```

Answer: d

D

#### What will be the output of the following Python code snippet?

```
for i in [1, 2, 3, 4][::-1]:
    print(i, end=' ')
a) 4 3 2 1
b) error
c) 1 2 3 4
d) none of the mentioned
```

Answer: a

What will be the output of the following Python code?

```
class tester:
    def __init__(self, id):
        self.id = str(id)
        id="224"

>>>temp = tester(12)
>>>print(temp.id)
a) 12
b) 224
c) None
d) Error
Answer: a
```

What will be the output of the following Python program?

```
def foo(x):
    x[0] = ['def']
    x[1] = ['abc']
    return id(x)
    q = ['abc', 'def']
    print(id(q) == foo(q))
    a) Error
    b) None
    c) False
    d) True
```

Answer:d

What will be the output of the following Python program?

```
z=set('abc')
z.add('san')
z.update(set(['p', 'q']))
z
a) {'a', 'c', 'c', 'p', 'q', 's', 'a', 'n'}
b) {'abc', 'p', 'q', 'san'}
c) {'a', 'b', 'c', 'p', 'q', 'san'}
```

Answer:c

What will be the output of the following Python code?

# print("abc. DEF".capitalize())

- a) Abc. def
- b) abc. def
- c) Abc. Def
- d) ABC. DEF

Ans:a

What will be the value of 'result' in following Python program?

list1 = [1,2,3,4]

list2 = [2,4,5,6]

list3 = [2,6,7,8]

result = list()

result.extend(i for i in list1 if i not in (list2+list3) and i not in result)

result.extend(i for i in list2 if i not in (list1+list3) and i not in result)

result.extend(i for i in list3 if i not in (list1+list2) and i not in result)

- a) [1, 3, 5, 7, 8]
- b) [1, 7, 8]
- c) [1, 2, 4, 7, 8]
- d) error

Answer: a

What will be the output of the following Python code?

# print('\*', "abcde".center(6), '\*', sep=")

- a) \* abcde \*
- b) \*abcde \*
- c) \* abcde\*
- d) \* abcde \*

Ans:b

What will be the output of the following Python program?

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```
i = 0
while i < 5:
  print(i)
  i += 1
  if i == 3:
     break
else:
  print(0)
a) error
b) 0 1 2 0
c) 0 1 2
d) none of the mentioned
Answer: c
What will be the output of the following Python code?
x = 'abcd'
for i in range(len(x)):
  print(i)
a) error
b) 1 2 3 4
c) a b c d
d) 0 1 2 3
Ans:d
What will be the output of the following Python program?
def addItem(listParam):
  listParam += [1]
mylist = [1, 2, 3, 4]
addItem(mylist)
print(len(mylist))
a) 5
b) 8
c) 2
d) 1
```

What will be the output of the following Python code snippet?

Answer:A

# z=set('abc\$de')

#### 'a' in z

- a) Error
- b) True
- c) False
- d) No output

Ans:b