Practice Exam 1

1. What will the output be after executing the following code snippet?
print(9** 3 ** 0 ** 1)

A. 3
B. 9
C. 1
D. 18

2. What will the output be, if we run the following code?
weekdays = ("Monday","Tuesday","Wednesday","Thursday")
weekdays.append("Friday")
print (weekdays)

A.
Monday, Tuesday, Wednesday, Thursday
B.
Friday
C.
None
D.
AttributeError: 'tuple' object has no attribute 'append'

3. How many times will it print "#"?

```
if x!=10:
    print("#")
    if x<8:
        print("#")
    elif x==10:
        print("#")
    else:
        print("#")
else:
    print("#"*3)
```

A. 3
B. 1
C. 2
D. 4

4. What is the output of this code when "robert" is entered by the user when prompted?

```
name = input()
print(name == " Robert ")
```

A. True
B. error
C. Robert
D. False

5. What would be printed to the console after the following code is executed?

```
i=0
while i < 1:
    print('Hello', end=", ")
    i += 1
else:
    print("World")
```

A. Hello
B. "Hello", World
C. Hello World
D. Hello, World

6. What will the output be after executing the following code?

```
Tupl = ['Python', 'Tuple']
print(tuple(Tupl))
```

A. ('Python', 'Tuple')
B. [Python, Tuple]
C. ['Python', 'Tuple']
D. (Python, Tuple)

7. What is the output when the following code snippet is run:

```
milk_left = "None"
if milk_left:
    print("Groceries trip pending!")
else:
    print("Let's enjoy a bowl of cereals")
```

A. Error
B. None
C. Let's enjoy a bowl of cereals
D. Groceries trip pending

8. What will the output be after executing the following code?

```
def put(x):
    return [6]

val = [0, 1, 2, 3, 4, 5]
```

```
y = put(val);
print(y)
```

A. [6]
B. [0, 1, 2, 3, 4, 5]
C. -6
D. (0,1,2,3,4)

9. What will the output be after executing the following code?

```
Dict = dict({1: 'Python', 2: 'Dictionaries'})
print(Dict)
```

A. dict{'Python', 'Dictionaries'}
B. dict({'Python', 'Dictionaries'})
C. {'Python', 'Dictionaries'}
D. {1: 'Python', 2: 'Dictionaries'}

10. What is the output of this code after the user inputs "Python" when prompted?

```
word = input()
print(word*3)
```

A. PythonPythonPython
B. error
C. Python*3
D. Python Python Python

11. What will the output be after running the following code?

```
def put(x):
    x[-1] = 6
val = [0, 1, 2, 3, 4, 5]
put(val);
print(val)
```

A. [0,1,2,3,4,5]
B. (0,1,2,3,4,5,6)
C. [0, 1, 2, 3, 4, 6]
D. [1,2,3,4,5,6]

12. What will the output be, if we execute the following code?

```
Dict = {'Name': 'Python', 1: [1, 2, 3, 4], 2: "hi"}
print(Dict)
```

A. {'Name': 'Python', [1, 2, 3, 4], 'hi'}
B. {'Name': 'Python', 1: [1, 2, 3, 4], 2: 'hi'}
C. Syntax Error
D. {'Python', [1, 2, 3, 4], 'hi'}

13. What will the output be, if we run the following code?

```
lst1 = [0,1]
lst2 = [1,0]
for x in lst1 :
    for y in lst2:
        print(x,y)
```

A.
0 1
1 1
0 0
1 0

B.
0 1
0 0
1 1
1 0

C.
0 1
0 0
1 0
1 1

D.
0 1
1 1
1 0
0 0

14. What will the output be after executing the following code?
```
print("Hello","\nPython!")
```

A. Hello "\nPython!"
B. Hello Python!
C. Hello

Python!

D. Hello \nPython!

15. What will the output be after running the following code snippet?
```
full_name = "robert method karamagi"
print(full_name.title())
```

A.
Robert method karamagi
B.
Robert method Karamagi
C.
Robert Method Karamagi
D.
ROBERT METHOD KARAMAGI

16. What will the output be after calling the following function?
```
def sum(a,b):
  return a * b
  return a + b
print(sum(2,3))
```

A. 6
B. Syntax Error
C. 6 5
D. 5

17. What will the output be after running the following code snippet?
```
age = 19
print(not age > 18 and age < 20)
```

A. 19
B. SyntaxError
C. True
D. False

18. What would be printed to the console after the following code is executed?

```
for num in range(1, 10, 2):
    print(num, end = ",")
```

A. 2,4,6,8,10
B. 2,4,6,8
C. 1,3,5,7,9
D. 1,3,7,9

19. What will the output be after executing the following code snippet?

```
programming_language = "Python 3"
print (programming_language[-1])
```

A. Nothing is printed
B. 3
C. -1
D. P

20. What will the output be, if we run the following code?

```
dict1 = {1:"One", 2:"Two"}
dict1[2] = "One"
print(dict1)
```

A. No Output
B. {1: One, 2: Two}
C. {1:"One", 2:"One"}
D. {1: "One",1 : "One"}

21. What will the output be after running the following code?

```
nums = [1, 2, 3, 4, 5, 6, 7]
print(nums[::-1])
```

A.
[1, 2, 3, 4, 5, 6]
B.
[7, 6, 5, 4, 3, 2, 1]
C.
[0, 1, 2, 3, 4, 5, 6]
D.
[7, 1, 2, 3, 4, 5, 6]

22. What is the output of this code when 'wi' and 'fi' are entered by the user when prompted and stored in a and b, respectively?

```
a = input()
b = input()
print(a + b * 3)
```

A.
wifiwiwifi
B.
wifiwifiwifi
C.
wifififi
D.
wififififi

23. What will the output be after executing the following code?

```
print("Hello","World","Python", sep="#")
```

A. Hello#World#Python
B. error
C. #Hello#World#Python
D. HelloWorldPython#

24. What is the output of the following code?

```
print (5//4)
```

A. error
B. 4
C. 2

D. 1

25. What is the output of the following code?

```
num = 4,
print(type(num))
```

A. error
B. <class 'int'>
C. <class 'tuple'>
D. Invalid Data Type

26. What will the output be after running the following code?

```
def oddoreven(num):
    if (num % 2 == 0):
        print('even')
    else:
        print("odd")

oddoreven(13)
```

A.
odd
B.
even

27. What will the output be after running the following code?

```
def swap(x, y):
     z = x;
     x = y;
     y = z;
x = 5
y = 10
swap(x, y)
print(x , y)
```

A. error
B. 5 10
C. 10 5

D. Prints nothing

28. What will the output be after running the following code?

```
def default(x, y=5):
    print( y , x)
default(1)
```

A. Prints nothing
B. 1 5
C. error
D. 5 1

29. Will the following code run without errors?

```
tup1 = (1,3,5)
tup2 = (2,4)

tup1 = tup1+tup2
print(tup1)
```

A. This code will run without errors.
B. This code will not run.

30. What is the output after executing the following code?

```
fruits = ["Apples", "Oranges", "Mangoes"]
for fruit in fruits:
    if fruit != "Apples":
        print(fruit, end=" ")
```

A. Oranges Mangoes
B. Apple Mangoes
C. Apple Oranges
D. Apple Oranges Mangoes

Practice Exam 2

1. What do you expect the following code will print given the first input is apple (stored in variable a) and the second input is banana (stored in variable b)?

```
a = input()
b = input()

x, y = b, a
print(x, y,sep="::")
```

A. apple:banana
B. apple::banana
C. banana:apple:
D. banana::apple

2. What will the output be after running the following code snippet?

```
def myfun(num):
    if num >= 4:
        return num
    else:
        return myfun(1) * myfun(2)

print(myfun(4))
```

A. 0
B. 4
C. 2
D. 1

3. What will the output be after running the following code snippet?

```
lst = ["apples","bananas", ""]
lst.remove("apples")
print(lst)
```

A. ['bananas', '']
B. ['bananas']
C. ['apples']

D. ['apples', 'bananas', '']

4. What will the output be after running the following code snippet?

```
nums = [1, 2, 3, 4, 5, 6, 7]
print(nums[::-1])
```

A. [7, 6, 5, 4, 3, 2, 1]
B. [1, 2, 3, 4, 5, 6, 7]
C. [1, 2, 3, 4, 5, 6]
D. [2, 3, 4, 5, 6, 7]

5. What will the output be after running the following code snippet?

```
a = 0b1011
b = 0b1001
print(bin(a ^ b))
```

A. 0b01
B. 0b11
C. 0b10
D. 10

6. What is the output of the following program?

```
x = 0
for i in range(10):
  for j in range(-1, -10, -1):
    x += 1
print(x)
```

A. 1
B. 9
C. 10
D. 90

7. What will the output be after running the following code snippet?

```
lst1 = [1, 4, 8, 16]
lst2 = [4, 16, 8, 1]

print(lst1 == lst2)
```

A. Not equal
B. Equal
C. False
D. True

8. What will the output be after running the following code snippet?
```
print(9 % 2 ** 4)
```

A. 4
B. error
C. 1
D. 9

9. What is the output of the following snippet of code:
```
def func(num):
   while num > 0:
      num = num - 1
num=3
func(num)
```

A. 2
B. 3
C. Nothing is printed
D. 0

10. What will the output be after running the following code snippet?
```
if 1 == 1.0:
    print("Values are the same")
else:
    print("Values are different")
```

A. Values are the same
B. Values are different
C. true
D. false

11. What do you expect the following code to print:
```
nums = [1, 2, 3, 4]
```

```
nums.append(5)
print(nums)
```

A. [5, 4, 3, 2, 1]
B. [1, 2, 3, 4, 5]
C. [1, 2, 3, 4]
D. [5, 1, 2, 3, 4]

12. What will the output be after running the following code snippet?

```
x = 100
def glob():
   global x
   x = 20
glob()
print(x)
```

A. 100
B. 20
C. error
D. x not defined

13. What will the output be after running the following code snippet?

```
nums = [1, 2, 3]
for i in range(len(nums)):
    nums.insert(i,i+1)
print(nums)
```

A. [1, 1, 2, 2, 3, 3]
B. [1, 2, 3, 1, 2, 3]
C. [1, 2, 3, 3, 2, 1]
D. [1, 2, 3]

14. What will the output be after executing the following code snippet?

```
i = 0
while i > 3:
    i+=1
    print("Yes")
```

```
else:
    i -=1
    print("No")
```

A. error
B. Yes
C. No
D. 0

15. What will the output be after running the following code snippet?

```
s1="Hello Prof Karamagi"
print(s1.capitalize())
```

A. hello prof karamagi
B. HelloProfKaramagi
C. Hello prof karamagi
D. Hello Prof Karamagi

16. What will the output be after running the following code snippet?

```
t1 = (1, 2, 3)
t2 = ('apples', 'banana', 'pears')
print(t1 + t2)
```

A. (1, 2, 3), ('apples', 'banana', pears')
B. (1, 2, 3) + ('apple', 'banana'. 'pears')
C. (1, 2, 3, 'apples', 'banana', 'pears')
D. ('apple, 'banana', 'pears', 1, 2, 3)

17. What will happen if the following snippet of code is executed?

```
def greeting(name= ""):
    print("Hello", name)

greeting()
```

A. Hello ""
B. Hello "name"
C. Hello, name
D. Hello

18. What will the output be after running the following code snippet?

```
print("Robert","Karamagi", sep=",")
```

A. Robert,Karamagi
B. Robert ","Karamagi
C. Robert Karamagi
D. RobertKaramagi

19. What will the output be after running the following code snippet?

```
marks = 55
if marks > 70 and marks < 80:
    print("First Class")
elif marks > 60 and marks < 70:
    print("Second Class")
elif marks >50 and marks < 60:
    print("Third Class")
else:
    print("No Class")
```

A. No Class
B. First Class
C. Second Class
D. Third Class

20. What will the output be after running the following code snippet?

```
def tripler(num):
    def doubler(num):
        return num *2
    num = doubler(num)
    return num * 3

print(tripler(2))
```

A. 64
B. 12
C. 7
D. 6

21. What will the output be after running the following code snippet?
```
print(end='',sep='--')
```

A. --
B. ''
C. Nothing; no newline/blankline
D. '--'

22. What will the output be after running the following code snippet?
```
nums = [[1, 2, 3]]
initializer = 1

for i in range(1):
    initializer *= 10
    for j in range(1):
        nums[i][j] *= initializer

print(nums)
```

A. [[10, 2, 3]]
B. [[1, 2, 3]]
C. [[10, 1, 2, 3]]
D. [[10]]

23. What will the output be after running the following code snippet?
```
val = 5
print("less than 10") if val < 10 else print("greater than 10")
```

A. not valid
B. greater than 10
C. less than 10
D. syntax error

24. What will the output be after running the following code snippet?
```
d = {'one':2,'two':2}
d['one'] = 1
print(d)
```

A. {'one': 0, 'two': 1}

B. {'one': 0, 'two': 2}
C. {'one': 1, 'two': 2}
D. {'one': 1, 'two': 0}

25. What will the output be after running the following code snippet?
print("Python"*2,sep=',')

A. Python,Python
B. Python','Python
C. PythonPython
D. Python,*2

26. What will the output be after running the following code snippet?
```
def myprint(*val):
    print(val)
myprint("Peter","Piper","Pickled","Pepper")
```

A. error
B. ('Peter', 'Piper', 'Pickled', 'Pepper')
C. ('Peter')
D. ['Peter', 'Piper', 'Pickled', 'Pepper']

27. What do you expect to be output to the console?
```
if not(True):
  print("Hello, World!")
else:
  print("Python is Awesome!")
```

A. false
B. true
C. Python is Awesome!
D. Hello, World!

28. What will the output be after running the following code snippet?
print (10/5)

A. error
B. 2

C. 2.0
D. 5

29. What do you expect the following code snippet to printout:

```
tupl = tuple('Python World!')
print(tupl[:-7])
```

A. ('P', 'y', 't', 'h', 'o', 'n')
B. ('W', 'o', 'r', 'l', 'd', '!')
C. ('n', 'o', 'h', 't', 'y', 'P')
D. [P, y, t, h, o, n]

30. What will the output be after running the following code snippet?

```
def fun(a = 3, b = 2):
    return b ** a

print(fun(2))
```

A. 6
B. 4
C. 9
D. error

Practice Exam 3

1. What will be the output after running the following code?

```
def func1() :
    print("func1")
    def func2():
        print("func3")
        def func3():
            print("func3")
        func3()
    func2()
func1()
```

A.
func1
func3
func3

B.
func3
func3
func1

C.
func1
func2
func3

D.
func3
func2
func1

2. What will be the output after running the following code?

```
nums = [1, 2, 3, 4, 5, 6, 7]
print(nums[::-5])
```

A. [7, 2]
B. [7, 6, 5, 4, 3, 2]
C. [7, 3]
D. SyntaxError

3. What will be the output after running the following code?

```
for i in range(10,12,2):
  if i % 2 != 1:
    print("No")
  else:
    print("Yes")
```

A. Yes
B. True
C. error
D. No

4. What will be the output when the following program is run?

```
tupl = 5,4,"Earth"
print(list(tupl))
```

A. 5,4,'Earth'
B. [5,4]
C. [5, 4, 'Earth']
D. {5,4,'Earth'}

5. What is the output of the following code:

```
def fun(*val):
    print(type(val))

lst=[1,2,3,4,5]
number = 400
fun(lst,number)
```

A. <class 'tuple'>
B. <class 'list'><class 'int'>
C. <class 'list'>
D. error

6. What will the output be after executing this code?

```
x = []
y = ""
z = -1
```

print(bool(x),bool(y),bool(z))

A. True True False
B. False False True
C. False True False
D. False False False

7. What is the output of the following print statement ?
p = 10
q = 10
print(p is q)

A. False
B. True
C. SyntaxError
D. 10

8. What is the output when the following code is executed:
vowels = ["a", "e", "i", "o", "u"]
all = list(range(-2)) + vowels
print(all)

A. ['o', 'u']
B. ['a', 'e', 'i']
C. ['a', 'e', 'i', 'o', 'u', 'a', 'e', 'i', 'o', 'u']
D. ['a', 'e', 'i', 'o', 'u']

9. What will be the output after running the following code?
val = ['Python', 'Tuple']
val_t = tuple(val)
val_t.pop()
print(val_t)

A. AttributeError
B. ['Tuple']
C. []
D. ['Python']

10. What do we need to change in order to fix the following code:
```
str = "Peter "Piper" Picked A Peck Of Picked "Pepper""
print(str)
```

A. error as the variable name str is invalid
B. None of the above
C. Wrap the whole sentence in a single quotes and leave Piper and Pepper in double quotes as is
D. Escape the quotes around Piper and Pepper words using the \ character.

The two ways to fix the code are:
```
str = "Peter \"Piper\" Picked A Peck Of Picked \"Pepper\""
str = 'Peter "Piper" Picked A Peck Of Picked "Pepper"'
```

11. What would the following program print to the console when user inputs 3 and 'Python' to be stored in the a and b variables respectively?
```
a = int(input())
b = input()
print(a*b)
```

A. "Python Python Python"
B. Python
C. PythonPythonPython
D. SyntaxError

12. What do you expect the following code to produce?
```
greeting = "Good Morning"
for ch in greeting:
  if ch == 'o':
    break
  print(ch)
else:
  print("Good Night")
```

A. G

B. Good Night
C. Good Morning
D. Go

13. What will be the output after running the following code?

```
tuple_one = (1, 2, 3)
tuple_two = ("Apples", "Bananas")
tuple_three = (tuple_one + tuple_two)
print(tuple_three)
```

A. (1, 2, 3, 'Apples', 'Bananas')
B. SyntaxError
C. (1, 2, 3)('Apples', 'Bananas')
D. ('Apples', 'Bananas', 1, 2, 3)

14. Given x and y are two binary numbers, what would the AND (&) operator on these number yield?
Note, the bin() function will take a decimal number as an argument and produce a binary number.

```
x = 0b101
y = 0b110
print(bin(x & y))
```

A. 0b110
B. 0b101
C. 0b001
D. 0b100

15. What do you expect the following print statement to produce ?

```
str = "Betty Bought A Bit Of Bitter Butter"
print('Butter' in str)
```

A. False
B. Butter
C. "Butter"
D. True

16. What will be the output after running the following code?

```
if not(True):
  print("hi")
else:
  print("bye")
```

A. False
B. error
C. hi
D. bye

17. What will the output be after executing this code?

```
h = {'blue': 1, 'red': 2, 'yellow': 3}
while len(h) > 2:
  print(h)
```

A. error
B. The program will infinitely print {'blue' : 1,'red' : 2,'yellow': 3} .
C. {'blue' : 1,'red' : 2,'yellow': 3}
D. Nothing is printed

18. What do you expect the following code to print out:

```
print(5 % 4 ** 2 // 2)
```

A. 1
B. 2
C. 5
D. error

19. What will be the output when the following program is run?

```
print("Hello","World", end=" ")
print("Python")
```

A. Hello World Python
B. Hello World
C. HelloWorld Python
D. HelloWorldPython

20. What will be the output after running the following code?

```
a = 1
b = 1
while a < 2:
  while b < 2:
    print(a, ":", b)
    b += 1
    a += 1
```

A. 1 : 1
B. 1 : 2
C. 2 : 2
D. 2 : 1

21. What will be the output after running the following code?

```
def func(x,y):
    return x+y
print(func(9))
```

A. 9
B. 9+y
C. 0
D. error

22. What will the output be after executing the following code?

```
fruits = ["apples","bananas"]
for i in range(1,2):
  for fruit in fruits:
    print(i, fruit)
```

A.
apples
bananas

B. error

C.
1 apples
1 bananas

D.
1 apples
2 bananas

23. What is the output of the following print statement:
greeting = "Knowledge Is Power"
print(greeting[::])

A. Knowledge Is Power
B. KnowledgeIsPower
C. error
D. "Knowledge Is Power"

24. What will be the output after running the following code?
languages = {'lang1': {1: 'Python'},
'lang2': {2: 'Java'}}
print (languages['lang1'][1])

A. error
B. Java
C. Python
D. 1

25. What will the output be when the following code is executed?
def func(val1 = 2, val2 = 4):
print(val1 + val2)
func(val2 = 3)

A. Invalid input
B. 5
C. 6
D. 7

26. What will be the output after running the following code?
numbers = dict([('first', 3),('second', 1),('third', 2)])
print(numbers.pop('second'))

A. 1

B. [('first', 3),('third', 2)]
C. [('first', 3),(1),('third', 2)]
D. second

27. What will the output be after running the following code snippet?

```
a = 'Python'
i = 0
while i < len(a):
    i += 1
print(i)
```

A. 0,1,2,3,4,5
B. 6
C. 1,2,3,4,5,6
D. 5

28. What is the output of the following code:

```
def func(x):
    x = [1,2,3]
    return x

x = [4,5,6,7]
y = func(x)
print(x, y)
```

A. [1, 2, 3][1, 2, 3]
B. error
C. [4, 5, 6, 7] [1, 2, 3]
D. [1, 2, 3][4, 5, 6, 7]

29. What is the output of the following code:

```
def area_square(side):
    return side ** 2

print(area_square(10))
```

A. 40
B. 100

C. 20
D. 200

30. What is the output of the following code:

```
lst = [1, 2] * 5
print(len(lst))
```

A. 10
B. error
C. 9
D. 5

Practice Exam 4

1. What will be the output after running the following code?

```
s = 0
for i in range(1, 10):
    s = s + i
print(s)
```

A. 45
B. 10
C. 1
D. 55

2. What will be the output after running the following code?

```
def func(mylist):
    mylist[3]="strawberries"

lst = ["bananas","apples","pears","peas"]
func(lst)
print(lst)
```

A. ['bananas', 'apples', 'strawberries', 'peas']
B. ['bananas', 'apples', 'pears', 'strawberries']
C. ['bananas', 'apples', 'strawberries']
D. ['strawberries', 'strawberries', 'strawberries']

3. What will be the output after running the following code?

```
def func(x, y = 6):
    return x ** 3
print(func( 2 ))
```

A. 8
B. 27
C. 216
D. error

4. What will be the output after running the following code?

```
for i in range(1) :
    for j in range(1):
        print(i,j)
```

A. 1 1
B. error
C. 0 0
D. 0 1

5. What does the following code do:
```
print( 1 ** 4 // 2)
```

A. 2.0
B. 0.5
C. 0
D. 2

6. What will be the output after running the following code?
```
x = 2
y = 1.0
print(x+y)
```

A. 3.0
B. 3
C. TypeError
D. 21.0

7. What will be the output after running the following code?
```
val = 8
while val > 0:
    val = val - 2
    if val <= 5:
        print(val, end="")
        break
print('hi')
```

A. 8hi
B. 2hi
C. hi
D. 4hi

8. Mark the correct sentences about the break statement in a for loop (check all that apply):

A. Break statement alters the flow of the loop
B. Break will terminate the current iteration but will resume with the next iteration

C. Break will terminate the entire loop
D. Break statement in an inner loop will terminate the both inner and outer loop

9. What will be the output after running the following code?

```
a = 'python'
i = 0
while i < len(a):
  i += 1
  pass
print('Value of i :', i)
```

A. Value of i : i
B. Value of i : 6
C. 6
D. SyntaxError

10. What will be the output after running the following code?

```
p = 0b1100
q = 0b1101
print(bin(p | q))
```

A. 0b1110
B. 0b1111
C. 0b1101
D. 0b1100

11. What will be the output after running the following code?

```
a = ["Monday", "Wednesday", "Thursday"]
a.insert(1,"Tuesday")
a.append("Friday")
print(a)
```

A. ["Tuesday", "Monday", "Wednesday", "Thursday", "Friday"]
B. ["Monday", "Tuesday, "Wednesday", "Thursday", "Friday"]
C. ["Monday", "Wednesday", "Thursday"]
D. ["Tuesday","Friday", "Monday", "Wednesday", "Thursday"]

12. What is the output of the code below:

```
x = 30
def change_me():
  global x
  x += 30
  print(30 + x)
change_me()
print(x)
```

A.
60
90

B.
90
60

C. 90
D. 60

13. What will be the output after running the following code?

```
def fun(data, *num ):
    print(data)

fun("Earth", 2, True, "Jupiter")
```

A. Earth
B. Earth Jupiter
C. 2
D. 2 True

14. What will be the output after the following code is executed?

```
print("Hello","World",sep=None)
```

A. Hello World
B. HelloWorld
C. HelloNoneWorld
D. Hello,World

15. What will be the output after running the following code?

```
tupl1 = (-1, 0, 1)
tupl2 = ('bananas')
tupl3 = (tupl1, tupl2)
print(tupl3)
```

A. ((-1, 0, 1), 'bananas')
B. (-1, 0, 1, 'bananas')
C. (-1, 0, 1)('bananas')
D. ('bananas', (-1, 0, 1))

16. What will be the output after running the following code?

```
def fun(x=5,y):
    return x/y
print(fun(2))
```

A. 2
B. 0.4
C. SyntaxError
D. 2.5

17. What will be the output after running the following code?

```
temp = "True"
while not temp:
    print("Temp")
else:
    print("Fixed")
```

A. Fixed
B. Temp
C. error
D. True

18. What is the output of this code when 'Robert' and 13 are entered by the user and stored in variables name and age, respectively?

```
name = input()
age = int(input())
```

```
print(name, type(age))
```

A. Robert <class 'int'>
B. Robert 13(int)
C. Robert 13
D. SyntaxError

19. What will be the output after running the following code?

```
for i in range(3):
    print(i, end=" ")
print(i)
```

A. 0 1 2
B. 1 2 3
C. 0 1 2 2
D. 0 1 2 3

20. What will be the output after the following code is executed?

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

x = func(2)
print(not x)
```

A. not True
B. False
C. not False
D. True

21. What will be the output after running the following code?

```
d = {}
d[0] = 'Python'
d['weekends'] = ["Saturday","Sunday"]
print(d)
```

A. ['Python', 'weekends', ['Saturday', Sunday']]
B. {'Python', ["Saturday", "Sunday"]}
C. IndexError
D. {0: 'Python', 'weekends': ['Saturday', 'Sunday']}

22. What will be the output of the following code?
print()

A. A blank space
B. error
C. A blank line
D. Nothing is printed

23. What is the output when the following program is executed?
data = [1, 2, "apples", 3.14, True]
del data[:2]
print(data)

A. [3.14, True]
B. ['apples', 3.14, True]
C. [1, "apples", 3.14, True]
D. [1, 2, "apples"]

24. What do you expect the following code to produce:
name = ""
while name:
  print("Good Morning")
else:
  print("Good Night")

A. error
B. Good Morning
C. Good Night
D. Good name=""

25. What will be the output after running the following code?
def fun(a,b,c):
    return a * b * c

print(fun(c=2,a=3,b=6))

A. 36
B. 30
C. error
D. invalid input

26. Is this the correct way to write the code?
x = 1

if (x < 3): print("True")
else: print("False")

A. No, the syntax is incorrect.
B. Yes, the syntax is correct.

27. What will be the output after running the following code?
s1 = "Hello"
s2 = "hello"
print(s1.lower() == s2.lower())

A. False
B. True
C. error
D. hello

28. What will be the output after running the following code?
a = [1, 2, 3]
a.append(2)
a.append(1)
print(a)

A. [1, 2, 3, 2, 1]
B. [1, 1, 2, 2, 3]
C. [1, 2, 3, 1, 2]
D. error

29. What will be the output after running the following code?

```
dict1 = {"John":1234, "Fruit":"Apples"}
dict2 = {"Fruit":"Apples", "John":1234}
print(dict1 == dict2)
```

A. not equal
B. False
C. True
D. equal

30. What will be the output after running the following code?

```
tupl = ('Python','World') * 2
print(tupl)
```

A. ('Python', 'World', 'Python', 'World')
B. error
C. ('Python', 'World')('Python', 'World',)
D. ('Python', 'World', 2)

Practice Exam 5

1. Which of the following statements is incorrect:
A. An indentation in Python language is mandatory
B. The '#' is used as single line comments and the """ """ (triple quote) is used as multi-line comments
C. We don't need to declare the type of a variable in Python program
D. All the above