

# Python Examples



**Coding Exercises**  
**Coding Interview**

*Ray Yao*

**Coding Exercises**  
**Coding Interview**

# **Python**

# **Examples**

**Coding Exercises**

**Coding Interview**

**Ray Yao**

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## **Preface**

### **30 Python Useful Examples**

This book includes 30 Python examples for beginners .

Through these useful examples, you can study Python programming skills in depth, master skillfully the Python coding knowledge, and became an expert of Python programming .

### **100 Question & Answers**

This book can help you:

Pass the college final exams

Pass the job interview exams

Pass the engineer certification exams

### **100 Answers for Download**

This book includes 100 answers; for your convenience, you can download and print it out to check the questions .

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# Python 30 Examples

# 01. Get a square root

## Source Code:

```
num = float(input('Please input a number : '))  
print (num)  
sqrt = num ** 0.5  
print('\n The square root of %0.1f is: %0.4f'%(num  
, sqrt))
```

(Assume that we input a number 81)

## Output:

Please input a number : 81.0

The square root of 81.0 is: 9.0000

## 02. Calculate the triangle area

### Source Code:

```
print('Please input three numbers: ') # three sides of
triangle
x = float(input(""))
y = float(input(""))
z = float(input(""))
print('%d ' %x)
print('%d ' %y)
print('%d ' %z)
# calculate the half girth
girth = (x + y + z) / 2
# calculate the triangle area
area = (girth*(girth-x)*(girth-y)*(girth-z)) ** 0.5
print('The triangle area is: %0.3f' %area)
```

### Output:

**Please input three numbers:**

**3**

**4**

**5**

**The triangle area is: 6.000**

## 03. Calculate the circle area

### Source Code:

```
print('Please input a radius: ')
radius = int(input(""))
print(radius)
def area(r):
    PI = 3.142
    return PI * (r*r)
print("The area of circle is: %.2f" %area(radius))
```

( Assume that we input a radius: 10 )

### Output:

Please input a radius:

10

The area of circle is: 314.20

## 04. Change a centigrade to fahrenheit

### Source Code:

```
# -*- coding: UTF-8 -*-  
print('Please enter a Centigrade:')  
C = float(input(""))  
print(C)  
F = (C * 1.8) + 32  
print('Centigrade %0.1f equals Fahrenheit %0.1f '%  
(C, F))
```

( Assume that we input 10 )

### Output:

Please enter a Centigrade:

10.0

Centigrade 10.0 equals Fahrenheit 50.0

## 05. Confirm an even or odd number.

### Source Code:

```
number = int(input("Please input a number: "))
print(number)
if (number % 2) == 0:
    print("{0} is an even number.".format(number))
else:
    print("{0} is an odd number.".format(number))
```

( Assume that we input 10 )

### Output:

Please input a number: 10

10 is an even number.

## 06. Decimal & other number conversion

### Source Code:

```
num = int(input("Please input a number : "))
print(num)
print("Decimal number is : ", num)
print("Binary number is : ", bin(num))
print("Octonary number is : ", oct(num))
print("Hexadecimal number is : ", hex(num))
```

( Assume that we input 10 )

### Output:

**Please input a number : 10**

**Decimal number is : 10**

**Binary number is : 0b1010**

**Octonary number is : 0o12**

**Hexadecimal number is : 0xa**

## 07. ASCII code & character conversion

### Source Code:

```
A = int(input("Please input an ascii code : "))
print(A)
C = input("Please input a character : ")
print(C)
print("The corresponding character of",A,"is: ",chr(A))
print("The corresponding ascii code of",C,"is: ",ord(C))
```

( Assume that we input an ASCII code 70 and a character F )

### Output:

Please input an ascii code : 70

Please input a character : F

The corresponding character of 70 is: F

The corresponding ascii code of F is: 70



## 08. Python calendar

### Source Code:

```
import calendar
print("Please input the year with four numbers: ")
yyyy = int(input( "" ))
print(yyyy)
print("Please input the month with two numbers: ")
mm = int(input( "" ))
print(mm)
print(calendar.month(yyyy,mm))
```

( Assume that we input 2021 and 03 )

### Output:

**Please input the year with four numbers:**

**2021**

**Please input the month with two numbers:**

**03**

**March 2021**

**Mo Tu We Th Fr Sa Su**

**1 2 3 4 5 6 7**

**8 9 10 11 12 13 14**

**15 16 17 18 19 20 21**

**22 23 24 25 26 27 28**

**29 30 31**

## 09. Get yesterday

### Source Code:

```
import datetime
def myFun():
    thisDay=datetime.date.today()
    aDay=datetime.timedelta(days=1)
    lastDay=thisDay-aDay
    return lastDay
print('Yesterday was: ')
print(myFun())
```

### Output:

Yesterday was:

2021-03-25

## 10. Search url in an article

### Source Code:

```
import re
def myFun(str):
    url = re.findall('https?://(?:[-\w.]|(?:%[\da-fA-F]{2}))+', str)
    return url
str = ' The website of Yahoo i s :
http://www.yahoo.com. The website of Amazon is:
https://www.amazon.com. Welcome to these
websites! '
print("The original article is: ", str, "\n")
print("The result of searching URL: \n", myFun(str))
```

### Output:

The original article is: The website of Yahoo i s : http://www.yahoo.com. The website of Amazon is: https://www.amazon.com. Welcome to these websites!

The result of searching URL:

['http://www.yahoo.com', 'https://www.amazon.com']

## 11. Get the greatest common divisor

### Source Code

```
def myFun(a, b):  
    if a > b:  
        smaller = b  
    else:  
        smaller = a  
    for v in range(1, smaller + 1):  
        if((a % v == 0) and (b % v == 0)):  
            myFun = v  
    return myFun  
n1 = int(input("Please input the first number: "))  
print(n1)  
n2 = int(input("Please input the second number: "))  
print(n2)  
print("The greatest common divisor between",  
n1,"and", n2, "is" , myFun(n1, n2))
```

( Assume that we input 6 and 8 )

### Output:

**Please input the first number: 6**

**Please input the second number: 8**

**The greatest common divisor between 6 and 8 is 2**

## 12. Get the least common multiple

### Source Code:

```
def myFun(a, b):  
    if a > b:  
        greater = a  
    else:  
        greater = b  
    while(True):  
        if((greater % a == 0) and (greater % b == 0)):  
            myFun = greater  
            break  
        greater += 1  
    return myFun  
n1 = int(input("Please input the first number: "))  
print(n1)  
n2 = int(input("Please input the second number: "))  
print(n2)  
print("The least common multiple  
between",n1,"and", n2, "is:" , myFun(n1, n2))
```

( Assume that we input 6 and 8 )

### Output:

**Please input the first number: 6**

**Please input the second number: 8**

**The least common multiple between 6 and 8 is: 24**

## 13. Miles converts to kilometers

### Source Code:

```
miles = float(input("Please input a number in miles:
"))
print(miles)
convertor = 0.621371
kilometers = miles / convertor
print('%0.3f miles is equal to %0.3f kilometers' %
(miles, kilometers))
```

( Assume that we input 10)

### Output:

Please input a number in miles: 10.0

10.000 miles is equal to 16.093 kilometers

## 14. Multiplication Table

### Source Code:

```
for x in range(1, 10):  
    print()  
    for y in range(1, x+1):  
        print ("%d*%d=%d" % (x, y, x*y), end=" ")
```

### Output:

```
1*1=1  
2*1=2 2*2=4  
3*1=3 3*2=6 3*3=9  
4*1=4 4*2=8 4*3=12 4*4=16  
5*1=5 5*2=10 5*3=15 5*4=20 5*5=25  
6*1=6 6*2=12 6*3=18 6*4=24 6*5=30 6*6=36  
7*1=7 7*2=14 7*3=21 7*4=28 7*5=35 7*6=42 7*7=49  
8*1=8 8*2=16 8*3=24 8*4=32 8*5=40 8*6=48 8*7=56 8*8=64  
9*1=9 9*2=18 9*3=27 9*4=36 9*5=45 9*6=54 9*7=63 9*8=72 9*9=81
```

## 15. Mark and grade

### Source Code:

```
mark = float(input('Please input an exam mark: '))
print(mark)
if mark >= 90:
    grade = 'A'
elif mark >= 80:
    grade = 'B'
elif mark >= 60:
    grade = 'C'
else:
    grade = 'D'
print ('%d means %s' % ( mark, grade ))
```

### Output:

Please input an exam mark: 100.0

100 means A



## 16. Show the person who is oldest

### Source Code:

```
if __name__ == '__main__':  
    person = {"Ann":16,"Lee":28,"Tom":60,"Nel":32}  
    oldest = 'Ann'  
    for key in person.keys():  
        if person[oldest] < person[key]:  
            oldest = key  
    print('The oldest guy is %s, age is %d.' %  
          (oldest,person[oldest]))
```

### Output:

The oldest guy is Tom, age is 60.

## 17. Print a diamond pattern

### Source Code

```
from sys import stdout
for x in range(4):
    for y in range(2 - x + 1):
        stdout.write(' ')
    for num in range(2 * x + 1):
        stdout.write('*')
    print("")
for x in range(3):
    for y in range(x + 1):
        stdout.write(' ')
    for num in range(4 - 2 * x + 1):
        stdout.write('*')
    print("")
```

### Output:

```
  *
 ***
*****
*****
*****
 ***
  *

```

## 18. Get local time & Greenwich Time

### Source Code:

```
if __name__ == '__main__':  
    import time  
    print(time.ctime(time.time()))  
    print(time.asctime(time.localtime(time.time())))  
    print(time.asctime(time.gmtime(time.time())))
```

### Output:

Wed Mar 24 21:21:40 2021

Wed Mar 24 21:21:40 2021

Wed Mar 24 21:18:40 2021

## 19. Count the sum from 1 to 100

### Source Code:

```
sum = 0
for num in range(1,101):
    sum += num
print ('The sum is %d' %(sum))
```

### Output:

The sum is 5050

## 20. Count letters, spaces and characters

### Source Code:

```
import string
str = "Shell Scripting in 8 Hours!"
letters = 0
spaces = 0
number = 0
symbol = 0
i=0
while i < len(str):
    c = str[i]
    i += 1
    if c.isalpha():
        letters += 1
    elif c.isspace():
        spaces += 1
    elif c.isdigit():
        number += 1
    else:
        symbol += 1
print('chars = %d, spaces = %d, number = %d,
symbol = %d' % (letters, spaces, number, symbol))
```

### Output:

chars = 21, spaces = 4, number = 1, symbol = 1

## 21. Output the values in reverse order

### Source Code:

```
mylist = ['one', 'two', 'three', 'four', 'five']  
for num in mylist[::-1]:  
    print(num)
```

### Output:

five

four

three

two

one

## 22. Print out the Yang Hui triangle

### Source Code:

```
#!/usr/bin/python
# -*- coding: UTF-8 -*-
if __name__ == '__main__':
    arr = []
    for x in range(10):
        arr.append([])
        for y in range(10):
            arr[x].append(0)
    for x in range(10):
        arr[x][0] = 1
        arr[x][x] = 1
    for x in range(2,10):
        for y in range(1,x):
            arr[x][y] = arr[x - 1][y-1] + arr[x - 1][y]
    from sys import stdout
    for x in range(10):
        for y in range(x + 1):
            stdout.write(str(arr[x][y]))
            stdout.write(' ')
        print()
```

**Output:**

**1**

**1 1**

**1 2 1**

**1 3 3 1**

**1 4 6 4 1**

**1 5 10 10 5 1**

**1 6 15 20 15 6 1**

**1 7 21 35 35 21 7 1**

**1 8 28 56 70 56 28 8 1**

**1 9 36 84 126 126 84 36 9 1**



## 23. Get the sum of the '1! + 2! ... + 10!'

### Source Code:

```
#!/usr/bin/python
# -*- coding: UTF-8 -*-
num = 0
sum = 0
item = 1
for num in range(1,11):
    item *= num
    sum += item
print ('1! + 2! + 3! + ... + 10! = %d' % sum)
```

### Output:

1! + 2! + 3! + ... + 10! = 4037913

## 24. Input three numbers, output in order

### Source Code:

```
print( 'Please input three numbers.' )
if __name__ == '__main__':
    v1 = int(input(""))
    v2 = int(input(""))
    v3 = int(input(""))
    def swap(p1,p2):
        return p2,p1
    if v1 > v2 : v1,v2 = swap(v1,v2)
    if v1 > v3 : v1,v3 = swap(v1,v3)
    if v2 > v3 : v2,v3 = swap(v2,v3)
    print(v1, v2, v3)
```

(Assume that we input three numbers: 6, 9, 3)

### Output:

Please input three numbers.

3 6 9

## 25. Sort contents alphabetically

### Source Code:

```
if __name__ == '__main__':  
    str1 = "MySQL in 8 Hours"  
    str2 = "C# in 8 Hours"  
    str3 = "Python in 8 Hours"  
    str4 = "PHP in 8 Hours"  
    str5 = "JAVA in 8 Hours"  
  
    print('Before being sorted.')  
    print(str1)  
    print(str2)  
    print(str3)  
    print(str4)  
    print(str5)  
  
    if str1 > str2 : str1,str2 = str2,str1  
    if str1 > str3 : str1,str3 = str3,str1  
    if str1 > str4 : str1,str4 = str4,str1  
    if str1 > str5 : str1,str5 = str5,str1  
  
    if str2 > str3 : str2,str3 = str3,str2  
    if str2 > str4 : str2,str4 = str4,str2  
    if str2 > str5 : str2,str5 = str5,str2  
  
    if str3 > str4 : str3,str4 = str4,str3  
    if str3 > str5 : str3,str5 = str5,str3  
    if str4 > str5 : str4,str5 = str5,str4
```

```
print(' ')
print('After being sorted.')
print(str1)
print(str2)
print(str3)
print(str4)
print(str5)
```

### **Output:**

**Before being sorted.**

**MySQL in 8 Hours**

**C# in 8 Hours**

**Python in 8 Hours**

**PHP in 8 Hours**

**JAVA in 8 Hours**

**After being sorted.**

**C# in 8 Hours**

**JAVA in 8 Hours**

**MySQL in 8 Hours**

**PHP in 8 Hours**

**Python in 8 Hours**

## 26. Exchange the value of variables

### Source Code:

```
def swap(a,b):  
    a,b = b,a  
    return (a,b)  
if __name__ == '__main__':  
    x = 100  
    y = 200  
    print('Before exchange: x = %d, y = %d' % (x,y))  
    x,y = swap(x,y)  
    print('After exchanged: x = %d, y = %d' % (x,y))
```

### Output:

Before exchange: x = 100, y = 200

After exchanged: x = 200, y = 100

## 27. Output the largest number

### Source Code

```
print('Please input three numbers:')
value1 = int(input('Input the 1st number:'))
print(value1)
value2 = int(input('Input the 2nd number:'))
print(value2)
value3 = int(input('Input the 3rd number:'))
print(value3)
if (value1 >= value2) and (value1 >= value3):
    largest = value1
elif (value2 >= value1) and (value2 >= value3):
    largest = value2
else:
    largest = value3
print("The largest number is", largest)
```

### Output:

```
Please input three numbers:
Input the 1st number:20
Input the 2nd number:90
Input the 3rd number:60
The largest number is 90
```

## 28. Count the number of each letter

### Source Code:

```
letters = 'okey'
str = 'Thank you for reading the series books of Ray
Yao team!'
print(str)
str = str.casefold()
num = {}.fromkeys(letters,0)
for ch in str:
    if ch in num:
        num[ch] += 1
print(num)
```

### Output:

Thank you for reading the series books of Ray Yao team!

{'o': 6, 'k': 2, 'e': 5, 'y': 3}

## 29. Calculate the power of a number

### Source Code:

```
num = int(input("Please input a number: "))
print(num)
rows = 8
print("The total rows are:", rows)
result = list(map(lambda x: num ** x, range(rows)))
for n in range(rows):
    print(num, "raised to power",n,"is",result[n])
```

( Assume that we input a number 3)

### Output:

```
Please input a number: 3
The total rows are: 8
3 raised to power 0 is 1
3 raised to power 1 is 3
3 raised to power 2 is 9
3 raised to power 3 is 27
3 raised to power 4 is 81
3 raised to power 5 is 243
3 raised to power 6 is 729
3 raised to power 7 is 2187
```



## 30. A simple calculator

### Source Code:

```
def add(n1, n2):
    return n1 + n2
def subtract(n1, n2):
    return n1 - n2
def multiply(n1, n2):
    return n1 * n2
def divide(n1, n2):
    return n1 / n2
print("One number represents one of the
operations:\n" \
      "Number 1 represents Add\n" \
      "Number 2 represents Subtract\n" \
      "Number 3 represents Multiply\n" \
      "Number 4 represents Divide\n")
choose = int(input("Please choose one of the
operations in 1 / 2 / 3 / 4 : "))
print(choose)
value1 = int(input("Enter the first number: "))
print(value1)
value2 = int(input("Enter the second number: "))
print(value2)
if choose == 1:
    print(value1, "+", value2, "=", add(value1,
value2))
elif choose == 2:
    print(value1, "-", value2, "=", subtract(value1,
```

```
value2))
elif choose == 3:
    print(value1, "*", value2, "=", multiply(value1,
value2))
elif choose == 4:
    print(value1, "/", value2, "=", divide(value1,
value2))
else:
    print("Your input is invalid!")
```

### **Output:**

One number represents one of the operations:

Number 1 represents Add

Number 2 represents Subtract

Number 3 represents Multiply

Number 4 represents Divide

Please choose one of the operations in 1 / 2 / 3 / 4 : 3

Enter the first number: 50

Enter the second number: 2

50 \* 2 = 100

# **Python 100**

## **Questions & Answers**

# 100 Questions

Fill in the blank below, make the program complete . The answers are on the last page .

(1)

```
age = 15
```

```
ticket = "Child Fare" if (age < 16 ) fill in here "Adult Fare"
```

# conditional expression

```
print (ticket)
```

A . ?      B . :      C . then      D . else

(2)

```
trafficLight = fill in here ("Please input traffic light -- red, green or yellow: ") #  
user inputs data
```

```
if trafficLight == "red":
```

```
    print ("The traffic light is " + trafficLight)
```

```
elif trafficLight == "green":
```

```
    print ("The traffic light is " + trafficLight)
```

else:

```
print ("The traffic light is " + trafficLight)
```

A . user\_input    B . input    C . user\_enter    D . enter

(3)

```
import math
```

```
r = input("Please enter a radius: ")
```

```
def circleArea():
```

```
    fill in here math . pi*pow(r, 2) # send back result to caller
```

```
print ("The circle area is: ", circleArea())
```

A . back    B . send    C . return    D . param

(4)

```
color = {0:"red", 1:"yellow", 2:"green", 3:"white"}
```

```
v = color . values()
for c fill in here v:  # iterate through elements
    print (c)
```

A . in      B . at      C . on      D . by

(5)

```
name = input("Please enter your last name: ")
isLetter = name . fill in here  # check if all characters are letters
if isLetter:
    print ("OK ! Valid Last Name ! ")
else:
    print ("No Good ! Invalid Last Name ! ")
```

A . isCharacter()    B . isChar()    C . isLetter()    D . isalpha()

(6)

```
f = fill in here ("tryFile . txt", "w")  # open a file
f . write("I am learning Python programming ! ")
f . close

f = fill in here ("tryFile . txt", "r")  # open a file
print (f . read())
f . close
```

A . unwrap      B . unlock      C . untie      D . open

(7)

**# program001.py**

```
def red():
```

```
    print ("This flower is red")
```

```
def yellow():
```

```
    print ("This flower is yellow")
```

```
def green():
```

```
    print ("This flower is green")
```

**# program002.py**

**fill in here** program001 # import a module

program001 . red()

program001 . yellow()

program001 . green()

A . get      B . import      C . obtain      D . acquire

(8)

class Flower:

def \_\_init\_\_( **fill in here** , name, color ): # a keyword represents the current object

self . name = name

self . color = color

f = Flower("rose", "red")

print ("The flower's name is " + f . name)

print ("The flower's color is " + f . color)

A . this      B . which      C . self      D . object



(9)

try:

int("ten")

**fill in here** ValueError as message: # handle the exception

print ("Exception occurs ! ", message)

A . except      B . exception      C . catch      D . finally

(10)

class Dog:                    # define a class

**fill in here** cry(self):      # define a cry() method

print ("Dog cries: Wou ! Wou ! ")

class Cat:                    # define a class

**fill in here** cry(self):      # define a cry() method

print ("Cat cries: Meo ! Meo ! ")

d = Dog()

d . cry()

c = Cat()

c . cry()

A . function      B . method      C . define      D . def

(11)

num1 = **fill in here** (8 . 67)      # convert data type

print (num1)      # returns 8

num2 = **fill in here** (8 . 67)      # convert data type

print (num2)      # returns 9 . 0

num3 = **fill in here** (5)      # convert data type

print (num3)      # returns 5 . 0

A . float      round      int

B . int      float      round

C . round      int      float

D . int      round      float

(12)

```
n = 0
```

```
fill in here n < 9: # loop statement
```

```
    print (n)
```

```
    n = n + 1
```

A . switch      B . while      C . for      D . do

(13)

```
import math
```

```
print ("ceil(9 . 5) : ", fill in here . ceil(9 . 5)) # math function
```

```
print ("floor(9 . 5) : ", fill in here . floor(9 . 5)) # math function
```

A . math      B . mathematics      C . function      D . method

(14)

Structures	Descriptions
------------	--------------

<b><u>fill in here</u></b>	# store multiple changeable values
<b><u>fill in here</u></b>	# store multiple unchangeable values
<b><u>fill in here</u></b>	# store multiple unique values
<b><u>fill in here</u></b>	# store multiple key : value pairs

- A . Dictionary    Set    Tuple    List
- B . Tuple    Dictionary    List    Set
- C . Set    Tuple    Dictionary    List
- D . List    Tuple    Set    Dictionary

(15)

Functions	Returned Strings
<b><u>fill in here</u></b>	# replace every old with new
<b><u>fill in here</u></b>	# count the number of the characters
<b><u>fill in here</u></b>	# change the first letter to uppercase

- A . count()    capitalize()    replace()
- B . replace()    capitalize()    count()
- C . replace()    count()    capitalize()

D . capitalize()      count()      replace()

(16)

```
import webbrowser
```

```
url = "http://www . amazon . com"
```

```
webbrowser . fill in here (url)    # open a specified web page
```

```
print ("You are visiting "+ url)
```

A . open      B . redirect      C . href      D . link

(17)

```
import math
```

```
from fill in here import *    # imports a built-in module
```

```
print (math . sqrt(100))
```

```
d = datetime . today()
```

```
print (d)
```

A . date      B . time      C . timedate      D . datetime

(18)

**fill in here** BaseClass:    # define a base class

.....

**fill in here** DerivedClass (BaseClass):    # define a derived class

.....

A . define      B . class      C . base      D . derived

(19)

while True:

    try:

        num = int(raw\_input("Please enter your ID: "))

    except ValueError as message:

        print (message)

**fill in here** :    # This statement must be executed

```
print ("Remind: please input number only . ")
```

A . catch      B . throw      C . throws      D . finally

(20)

```
class BaseClass
```

```
def methodName():    # base method
```

```
.....
```

```
class DerivedClass(BaseClass):
```

```
def fill in here :    # derived method overrides base method
```

```
.....
```

A . functionName()

B . functionID()

C . methodName()

D . methodID()

(21)

# display multiple lines of text .

multiString = fill in here Python

is a very

good language ! fill in here

print (multiString)

A . ‘ ’      B . “ ”      C . “ ”      D . “ ” ” ”

(22)

num=200

**if** num < 100:

print ("num is less than 100")

fill in here 100 < num < 150: # run when expression is true

print ("num is between 100 and 150")

**else:**

print ("num is greater than 150")

A . elif      B . then      C . if      D . else



(23)

```
def tryFunction( ):
```

```
    fill in here tryVar    # defines a global inside the function
```

```
    tryVar = "This variable can be referenced in everywhere . "
```

```
tryFunction( )    # call a function
```

```
print ("tryVar: " + tryVar )    # reference tryVar
```

A . str      B . String      C . var      D . global

(24)

```
lst1 = [0, 1, 2]
```

```
lst2 = [3, 4, 5]
```

```
myList = lst1 fill in here lst2    # concatenates two lists
```

```
print ("myList: ", myList)
```

```
print ("myList[5]: ",myList[5])
```

```
print ("len(myList): ", len(myList))
```

A . concatenates      B . +      C . concat      D . join

(25)

```
s1 = "JavaScript"    # return the index of first occurrence or -1
```

```
print (s1 . fill in here ("a"))    # Output: 1
```

A . index      B . search      C . find      D . seek

(26)

```
import os
```

```
print ( os. fill in here ())    # return current working directory
```

A . cd      B . getcwd      C . get      D . cwd

(27)

```
import math
```

```
from fill in here import *    # import a built-in module
```

```
d = fill in here . today()
```

```
print (d)
```

A . datetime      B . date      C . time      D . now

(28)

```
class Animal:    # define a class
```

```
count = 0
```

```
def __init__( fill in here ) :    # define a constructor
```

```
    self . name = value 1
```

```
    self . size = value2
```

```
def show(self) :
```

```
    print (self . name)
```

```
    print (self . size)
```

A . constructor      B . this      C . arg      D . self

(29)

# define a function that is a start point of the whole program

def **fill in here** ():

    pwd = input ("Please enter your password: ")

    if pwd == "12345":

        print ("Password is correct ! ")

    else:

        print ("Password is incorrect ! ")

A . start      B . initial      C . main      D . begin

(30)

# “open(filename, “argument”)”

arguments	actions
+	open file for <b>fill in here</b> mode

b	open file in binary mode
t	open file in text mode

- A . joining
- B . concatenating
- C . appending
- D . reading & writing

(31)

### # Regular Expressions

\w	Matches word characters .
<b><u>fill in here</u></b>	Matches non-word characters .
\s	Matches space .
<b><u>fill in here</u></b>	Matches non-space .
\d	Matches digitals .
<b><u>fill in here</u></b>	Matches non-digitals .

- A . \S \D \W
- B . \W \S \D
- C . \D \W \S
- D . \W \D \S

(32)

```
myArr = ["a", "b", "c", "d", "e"]
```

```
def show(key):
```

```
    fill in here (key > 5), "Index out of range ! "
```

```
    # assertion statement
```

```
    print (key)
```

```
key = 5
```

```
show (key)
```

- A . debug      B . insert      C . assertion      D . assert

(33)

Which following statement is **not** correct?

- A . Python is a computer programming language with Python software tools and libraries .
- B . Python is a human-readable programming language which is processed by its interpreter .
- C . Python is a client-side programming language whose interpreter is embedded in web browser software .
- D . Python is a widely used high-level programming language used for general-purpose programming .

(34)

Which following is the Python file extension name?

- A . . pn      B . . py      C . . ph      D . . python

(35)

\_\_\_\_\_ function outputs the text specified within its parentheses .

- A . alert()      B . echo()      C . show()      D . print()

(36)

Which following is the Python comment symbol?

A . #      B . //      C . \\\      D . < ! - -      - - >

(37)

\_\_\_\_\_ function outputs the text specified within its parentheses, and waits for the input from user .

A . user\_input()      B . raw-input()      C . input()      D . enter()

(38)

Which following statement is **not** correct?

- A . The value of Python variable can be referenced by its name .
- B . A Python variable may be given an initial value when declaring .
- C . A Python variable contains any data type .



D . A Python variable is something that holds a changeable value .

(39)

Which following line is **not** correct?

+	addition	line 0
-	subtraction	line 1
*	multiplication	line 2
%	Division	line 3
**	Exponent	line 4

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

(40)

Which following expression is **not** correct?

A.  $a += b$  means  $a = (a + b)$

- B.  $a *= b$  means  $a = (a * b)$   
C.  $a \%= b$  means  $a = (a \% b)$   
D.  $a != b$  means  $a = (a ! b)$

(41)

Which following line is **not** correct?

```
a = 100                # line 1
b = 200                # line 2
max = a ? (a > b) : b   # line 3
print (max)            # line 4
```

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

(42)

What is the output according to the following code?

```
result = 10-2*2**2
print (result)
```

A . 2      B . -6      C . 256      D . 16

(43)

Which following statements are **not** correct? (two choices)

- A . float(n) converts n to a floating point number .
- B . integer(n) converts n to an integer number .
- C . string(n) converts n to a normal string .
- D . hex(n) converts n to a hexadecimal string .

(44)

Which following statement is **not** correct?

- A . list . pop(n) removes an item at index n and returns it .
- B . list . number(n) returns the number of times n shown in the list .
- C . list . sort() returns the sorted items in order .
- D . list . reverse() returns the reverse order items .

(45)

Which following code is correct to define a Tuple?

A . myTuple = ['Mon', 'Tue', 'Wed', 'Thu']

B . myTuple = <'Mon', 'Tue', 'Wed', 'Thu'>

C . myTuple = {'Mon', 'Tue', 'Wed', 'Thu'}

D . myTuple = ('Mon', 'Tue', 'Wed', 'Thu')

(46)

Which following line is **not** correct?

color = {'Red', 'Yellow', 'Green'}      # line 1

color . add('Blue')                      # line 2

color . pop()                              # line 3

print (count(color))                      # line 4

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

(47)

Which following statement is **not** correct?

- A . set . add(n) adds one item n to the set .
- B . set . copy() copies the whole set .
- C . set . discard(n) removes one item at index n .
- D . set . pop() removes one random item from the set .

(48)

Which following statement is **not** correct?

- A . List stores multiple unfixed values in an unordered index .
- B . Tuple stores multiple fixed values in an ordered index .
- C . Set stores multiple unique values in an unordered index .
- D . Dictionary stores multiple key:value pairs in an unordered index .

(49)

What is the output according to the following code?

```
x = [3,2]
```

```
y = 0
```

```
y, x[y] = 1,8
```

```
print (x)
```

A . [3,2]      B . [1,8]      C . [1,2]      D . [3,8]

(50)

Which following line is **not** correct?

```
num = 8            # line 1
```

```
if num > 10:       # line 2
```

```
    print ('The number is greater than 10 .')
```

```
then num < 10:      # line 3
```

```
    print ('The number is less than 10 .')
```

```
else:               # line 4
```

```
    print ('The number is 10 .')
```

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

(51)

What is the output according to the following code?

```
for num in range (1):
```

```
    num = num - 1
```

```
    print (num)
```

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

(52)

Which following statement is **not** correct?

A . `int(-8 . 5)` returns -8

B . `round(-8 . 5)` returns -9 . 0

C . `ceil(-8 . 5)` returns -8 . 0

D . `floor(-8 . 5)` returns -8 . 0

(53)

What is the output according to the following code?

```
result = False and (False or (True and (not False)))  
print (result)
```

A . True      B . False      C . 1      D . 0

(54)

What is the output according to the following code?

```
def myFuntion(x, y):  
    result = x + y  
    return result  
myFuntion(100, 200)  
print (result)
```

A . 100      B . 200      C . 300      D . error message



(55)

Which following statement is **not** correct?

- A . \' means single quote
- B . \" means double quote
- C . \t means table
- D . \n means new line

(56)

What is the output according to the following code?

```
myString = 'JavaScript Programming'  
print (myString[-22:-17])
```

- A . Hours
- B . Programming
- C . JavaScript
- D . Java

(57)

Which following statement is **not** correct?

- A . `str . isalnum()`: str contains only numbers .
- B . `str . isalpha()`: str contains only letters .
- C . `str . isdigit()`: str contains only digits .
- D . `str . isidentifier()`: str contains only Python identifiers .

(58)

Which following statement is **not** good?

- A . The global variable is created outside functions .
- B . The local variable is created inside functions .
- C . Try to use Global variables as more as possible .
- D . Try to use Local variables as more as possible .

(59)

What is the output according to the following code?

```
def function01(num):return num*10
def function02(num):return num*20
def function03(num):return num*30
result = function01(1) + function02(2) + function03(3)
print (result)
```

A . 0      B . 60      C . 140      D . error message

(60)

\_\_\_\_\_ returns an index of a character in myString, or -1 if the character is not found in myString .

- A . myString . find(char)
- B . myString . index(char)
- C . myString . search(char)
- D . myString . seek(char)

(61)

Which following is illegal variable name of Python?

- A. mistakeName = 10
- B. 100%Correct = 10
- C. wrong\_Name = 10
- D. error100percent =10

(62)

Which following line is **not** correct?

```
bool = false    # line 1
if bool:        # line 2
    print('Python Programming ! ')    # line 3
else:           # line 4
    print('JavaScript Programming ! ')
```

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

(63)

Which following statement is correct?

- A . Justify-align code is required in Python code blocks .
- B . Right-align code is required in Python code blocks .
- C . Left-align code is required in Python code blocks .
- D . Indentation of code is required in Python code blocks .

(64)

Which following line is **not** correct?

```
while True:      # line 1
    try:          # line 2
        num = int(input('How old are you?'))    # line 3
        print (num)
    catch NameError:      # line 4
        print ('Please enter an integer number .')
```

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

(65)

The user input is always read as a \_\_\_\_\_data type .

A . int      B . integer      C . str      D . string

(66)

\_\_\_\_\_ returns number of times char occurs within myString .

A . myString . size(char)  
B . myString . count(char)  
C . myString . length(char)  
D . myString . number(char)

(67)

Debugging code can be added to the program using \_\_\_\_\_ keyword to return error messages .

A . assert  
B . debug  
C . check  
D . test

(68)

Which following statement is **not** correct?

About the argument of the open()

- A . “r+” opens a text file for reading or writing .
- B . “w+” opens a text file for reading or writing . (overwrite text)
- C . “a+” opens a text file for reading or writing . (append text)
- D . “b” opens a text file for both reading and writing from beginning .

(69)

Which following line is **not** correct?

```
while True:    # line 1
    try:        # line 2
        num = input('What is your student number?')
        print (num)
    except NameError:    # line 3
        print ('Please do not enter any characters . ')
```

```
final:      # line 4  
    print ('Thank you ! ')
```

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

(70)

What is the output according to the following code?

```
def flodiv(a,b):  
    return 1- a // b ** 1  
result = flodiv(100, 100)  
print (result)
```

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

(71)

Which following line is **not** correct to declare a class?

```
class Animal:      # line 1
```



```
count = 0          # line 2
def __init__() :    # line 3
    self . name = value 1    # line 4
    self . size = value2
```

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

(72)

Which following is correct to declare a derived class?

- A . class DerivedClass (BaseClass):
- B . class DerivedClass extends BaseClass:
- C . class DerivedClass inherits BaseClass):
- D . class DerivedClass : BaseClass:

(73)

“self” is a variable that refers to the \_\_\_\_\_ .

- A . current class

- B . current object
- C . global variable
- D . local variable

(74)

Which following statement is **not** correct about formatted string?

- A . `print ("String value is: %s " %num)` returns a string .
- B . `print ("Float value is: %.3f " %num)` returns a floating point number .
- C . `print ("Octal value is: %o " %num)` returns an octal number .
- D . `print ("Integer value is: %i " %num)` returns an integer .

(75)

Which following is **not** correct about Regular Expression?

- A . `?` matches zero or one repetition .
- B . `+` matches one or more repetitions .
- C . `*` matches zero or more repetitions .
- D . `$` matches any characters .

(76)

Which following statement will return **false** ?

- A . `print ('G' in 'Good')`
- B . `print ('A' not in 'Good')`
- C . `print ('g' in 'Good')`
- D . `print ('g' not in 'Good')`

(77)

What is the output according to the following code?

```
print ('JavaScript'[2: 5])
```

- A . `avaSc`
- B . `vaScr`
- C . `ava`
- D . `vaS`

(78)

Which following code can return **true** ?

- A . `print ('Java8' . isalnum())`
- B . `print ('Java8' . isalpha())`
- C . `print ('Java 8' . isalnum())`
- D . `print ('java 8' . isalpha())`

(79)

Which following statement is **not** correct?

- A . String must be enclosed within either single quote marks or double quote marks .
- B . `str` object can convert a value to the string data type .
- C . `rjust()` method adds padding to the left of the string .
- D . `ljust()` method adds padding to the right of the string .

(80)

What is the output according to the following code?

```
myList = ['N', 'B', 'A', 'C', 'B', 'A']
```

```
mySet = set(myList)
```

```
myTuple = tuple(mySet)
```

```
print (myTuple)
```

- A . ('N', 'B', 'A', 'C', 'B', 'A')
- B . ('N', 'B', 'A')
- C . ('C', 'B', 'A')
- D . ('A', 'C', 'B', 'N')

(81)

Which following statement is **not** correct about file open() mode?

- A . If open a non-existing file in **r** mode, the interpreter will report an error .
- B . If open a non-existing file in **w** mode, a new file will be created .
- C . If open an existing file in **w** mode, the original contents will be deleted .
- D . If open an existing file in **a** mode, the new contents will be added to the first line of the original contents .

(82)

Which following line is **not** correct?

```
class MyClass:
```

```
    Greeting = "          # line 1
```

```
    def __init__(self, Name="My friend"):    # line 2
```

```
        self . Greeting = Name + " ! "
```

```
    function SayHi(self):                    # line 3
```

```
        print ("Hi, "+ self . Greeting)
```

```
MyObject = MyClass()                        # line 4
```

```
MyObject . SayHi()
```

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

(83)

Which following statement is **not** correct?

A . In Python, method overloading happens in the same name methods and different parameters

- B . The class name should be uppercase and object name should be lowercase .
- C . For overriding a base method, the method declaration in the derived class must be exactly the same as that in the base class .
- D . You must not pass an argument value to the self argument .

(84)

Which following code is correct to import a module?

- A . from myFile . py import myFunction .
- B . from myFile import \*
- C . from myFile . py import\*
- D . from \* . py import myFunction

(85)

Which following line is **not** correct according to the code?

name = 'Smith'      # line 1

def myFunction(Nickname):      # line 2

    local name      # line 3

```
name = Nickname      # line 4
print (name)
myFunction('FatGuy')
```

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

(86)

Which following statement is **not** correct?

A . myString . strip(ch) removes all ch character at the beginning or the end of myString .

B . myString . split(sp) returns a list of substrings of myString which are separate by sp separators .

C . myString . encode() sets the encoding of myString .

D . myString . join(sp) concatenates the myString by sp separators .

(87)

Which following statement is **not** correct?



- A . type(100) returns <class 'int'>
- B . type(100 . 00) returns <class 'float'>
- C . type('100') returns <class 'str'>
- D . type(true) returns <class 'boolean'>

(88)

\_\_\_\_\_ can visit a specified website .

- A . web . hyperlink(url)
- B . webbrowser . open(url)
- C . browser . link(url)
- D . webbrowser . link(url)

(89)

What is the output according to the following code?

```
LuckyNumber = (1, 6, 8, 8)
```

```
LuckyNumber = LuckyNumber . append(100)
```

```
print (LuckyNumber)
```

- A . (1,6,8,8,100)
- B . 0
- C . error message
- D . 100

(90)

Which following line is **not** correct according to the code?

```
nums =[10, 20, 30, 40, 50]    # line 1
```

```
foreach n in nums:           # line 2
```

```
    if n > 30:                 # line 3
```

```
        print (n)             # line 4
```

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

(91)

Which following statement is **not** correct?

- A . The random module provides a random() method which can produce an integer number between 0 and 1 .
- B . The math module provides various math methods such as ceil(), floor(), pow(), sqrt(), sin(), cos() and exp() for programming .
- C . The time module provides a time() method which returns the elapsed time since January 1, 1970 .
- D . The keyword module provides a “kwlist” attribute which includes a list of all Python keywords .

(92)

What is the output according to the following code?

```
a = 10
```

```
b = 20
```

```
c = 30
```

```
result = a or b and c
```

```
print (result)
```

- A . true      B . false      C . 10      D . 20

(93)

Which following line is **not** correct according to the code?

```
num = 100      # line 1
if (num==100): # line 2
    result = 200 # line 3
    break       # line 4
print (result)
```

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

(94)

What is the output according to the code?

```
num = 100
for i in range (1, 10):
    num = num + 1
    continue
print (num)
```

A . 108      B . 109      C . 110      D . error message

(95)

Which following line is **not** correct according to the code?

```
num = 10          # line 1
while (num < 10):  # line 2
    return num - 1 # line 3
print (num)        # line 4
```

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

(96)

Which following statement is **not** correct?

- A . seek() can specify the position in a file .
- B . dir() can show the directory of the file .
- C . format() can format the string .
- D . zfill() can add zeros to the left of the string .

(97)

Which following code is **not** correct?

```
def myFunction(num):  
    try:          # line 1  
        return 10/num    # line 2  
    except ZeroDivisionError:  
        throws 'error'    # line 3  
    finally:      # line 4  
        print ("The result is ")  
print (myFunction(0))
```

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

(98)

Which following statement is **not** correct about constructor?

- A . `__init__` is called as a constructor, since it constructs the object .
- B . A constructor is called automatically whenever a new object is created .

- C . `__init__` must have a keyword **self** as its first parameter .
- D . `__init__` can be overloaded in Python .

(99)

Which following statement is **not** correct?

- A . You must call `gc()` function to execute garbage collection .
- B . Class declaration starts with the `class` keyword .
- C . An instance variable is initialized when an object is created .
- D . Polymorphism describes the ability to perform different method for different object if a program has one more classes .

(100)

What is the output according to the following code?

```
bool = 'The End'
```

```
if (bool == 'The End'):
```

```
    print ('Thank you very much ! ')
```

```
else:
```

pass

A . The End

B . See You !

C . My Friend !

D . Thank you very much !

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## 100 Answers

01 . D	26 . B	51 . A	76 . C
02 . B	27 . A	52 . D	77 . D
03 . C	28 . D	53 . B	78 . A
04 . A	29 . C	54 . D	79 . B
05 . D	30 . D	55 . C	80 . D
06 . D	31 . B	56 . D	81 . D
07 . B	32 . D	57 . A	82 . C
08 . C	33 . C	58 . C	83 . A
09 . A	34 . B	59 . C	84 . B
10 . D	35 . D	60 . A	85 . C
11 . D	36 . A	61 . B	86 . D
12 . B	37 . C	62 . A	87 . D
13 . A	38 . B	63 . D	88 . B
14 . D	39 . C	64 . D	89 . C
15 . C	40 . D	65 . C	90 . B
16 . A	41 . C	66 . B	91 . A
17 . D	42 . A	67 . A	92 . C
18 . B	43 . BC	68 . D	93 . D
19 . D	44 . B	69 . D	94 . D
20 . C	45 . D	70 . B	95 . C
21 . C	46 . D	71 . C	96 . B
22 . A	47 . C	72 . A	97 . C
23 . D	48 . A	73 . B	98 . D
24 . B	49 . D	74 . D	99 . A
25 . C	50 . C	75 . D	00 . D

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