

CODE WAR 2k17

Qualifiers Round

Language: Python

Time: 15 min

Marks: +2 for correct

Name:

email:

(for mcq) -1 for Incorrect

* Write the code snippet only. Make use of whatever you know to achieve the one liners

Q1. Given the string. Write a python code snippet to find the count of each alphabet.

Str=" hello can you count the number of u" //Write your code below

Q2. Given is a code for achieving a particular task in python

```
st={'hello':1,'world':2,'its':3} ##GIVEN
```

```
if("python" not in st.keys()): ##Part of Question
    st["python"]=4;
```

Achieve the same result in one line of code.

Q3. >>> a=0
>>> b=0
>>> a is b
True
>>> a=[]
>>> b=[]
>>> a is b
False

For Python3 onwards, is this true? Will the sequence of commands yield the right result? If YES, mention why in as minimal way possible otherwise NO and mention why.

Q4. def arrmod(a):
 a.append(9)

What output it will generate in the console. Is the program correct. If you find something wrong with it fix it and mention the output in console.

```
a={ }
arrmod( a )
print(a)
```

fix(only write a fix for the line you want)

Q5. class A():
 def __init__(dumadum):
 dumadum.a=10
 def print():
 print(dumadum.a)

a=A()
a.print()

What will it print. Will it print ? If you find something wrong with code fix the line and mention the output

Q6. def to_upper(k):
 k.upper()
 x = ['ab', 'cd']
 print(map(to_upper, x))

Python3 onwards. What will be printed. Is the program working as expected. If you believe it is not you are free to fix it, otherwise mention output.

Q7. Give a one line program for achieving the following output

```
>>> a = 45637 ##GIVEN YOUR CODE GOES BELOW  
>>>
```

```
>>> four five six three seven
```

Q8. Give a one line program of verifying whether a number is prime or not ******(Has hidden bonus mark)

```
>>>n=37 ##GIVEN NUMBER _ Your code goes below  
>>>
```

```
>>>"Prime"
```

Q9. Which of the following is equivalent to random.randrange(3)?

- A. range(3)
 - B. random.choice(range(0, 3))
 - C. random.shuffle(range(3))
 - D. random.select(range(3))
-

Q10. >>> L=(1,2,3)
>>> T=[1,2,3]
>>>L.append(L[0])
>>>print (L)

Will the given command generate error if yes fix the error ?
If it doesn't generate error then write the output.

Q11. What will be the output of this program ?

```
>>>str1='hello world'
>>> str1[-1:]
```

Your answer : _____

Q12. number=234

Given is the number reverse the number in one line of code e.g 234 becomes 432

Your Answer: _____

Q.13

```
p=[1,2,3,4]
for i in range(0,len(p)/2+1):
    t=p[i];
    p[i]=p[len(p)-i-1]
    p[size-i-1]=t
```

Will this code work. Or will it not? If the code works leave it be, if it does not can you fix it? If not make it better.

##new code to achieve the same

Q14. Which of the following function checks in a string that all characters are whitespaces?

- A. islower()
 - B. isnumeric()
 - C. isspace()
 - D. istitle()
-

Q.15 Which data type or data structure in Python is best to keep HASHTABLES in?

- A. Tuple
- B. list
- C. Dictionary
- D. None of the data type makes it easier to establish a HASHTABLE.