Homework 03

### 1. **Which of the following statement is INVALID**?

1. **x = y = z = 1**
2. **x = ( y = z + 1)**
3. **x, y = y, x**
4. **x += y**

### 2. **Which of the following expression is INVALID?**

1. **int32**
2. **40XL**
3. **self**
4. **\_\_name\_\_**

### 3. Which of the following sentences are **INCORRECT?**

1. **Other than dictionary, all other data types can be “tested” as True or False.**
2. **Empty string will be evaluated to “False”**
3. **Empty List string will be evaluated to “False”**
4. **Any number (integer or float) that has 0 value will be evaluated to “False”**

### 4. **Which of the following data typies are NOT Python data type?**

1. **char**
2. **int**
3. **float**
4. **list**

### 5. Which of the following sentences are **INCORRECT**:

1. **In a string, each character can be see as a string with the length euqal to 1**
2. **string terminates with \0**
3. **string is quoted either with single or double quote characters.**
4. **A pair of 3 consecutive double quote can contain a string with new line character or other special characters.**

### 6. **Which of the following statement will NOT create a directionary**:

1. **dic1 = {}**
2. **dict2 = {3 : 5}**
3. **dict3 = {[1, 2, 3]: “usetc”}**
4. **dict4 = {(1, 2, 3): “usetc”}**

### 7. **Which of the following statement is CORRECT?**

1. **min = x if x < y else y**
2. **max = x > y ? x : y**
3. **if ( x > y ) print x**
4. **while True: pass**

### 8. **Which of the following string is a CORRECT (select all that apply)?**

1. **‘abc” ab”**
2. **‘abc” ab’**
3. **“abc”ab”**
4. **“abc\”ab”**

### 9. **The correct result of** **“ab” + “c” \* 2 is?**

1. **abc2**
2. **abcabc**
3. **abcc**
4. **ababcc**

### 10. **Which of the following statement is invalid**?

1. **“New York”.encode()**
2. **“New York”.decode()**
3. **“New York”.encode().decode()**
4. **None of above**

### 11. What is the output of the following piece of code?

**Str1 = "examination is a word, and example is also a word!!!"**

**str2 = "exam";**

**print(str1.find(str2, 5))**

1. **0**
2. **7**
3. **27**
4. **-1**

### 12. **For the following script:**

**if k<=10 and k >0:**

**if k >5:**

**if k>8:**

**x=0**

**else:**

**X=1**

**else:**

**if k>2:**

**x=3**

**else:**

**x=4**

If **x = 3**, which one of the following group numbers is the possible value for **k**?

1. **3, 4, 5**
2. **3, 4**
3. **5, 6, 7**
4. **4, 5**

### 13. **Which one of the following is NOT Python key word**?

1. **raise**
2. **with**
3. **import**
4. **final**

### 14. **What is the result of calling the following function?**

**def myfun():**

**pass**

1. **return: 0**
2. **return: error, exception**
3. **return: empty string**
4. **return: None**

### 15. **For the following Python function:**

**def showNnumber(numbers):**

**for n in numbers:**

**print(n)**

**which one of the following call will create an error?**

1. **ShowNnumber([2, 4, 5])**
2. **showNnumber(‘abcesf’)**
3. **showNnumber(3.4)**
4. **showNnumber([12, 4, 5])**

### 16. **For the following Python function:**

**def chanageInt(number2):**

**number2 = number2+1**

**print("changeInt: number2= ",number2)**

**number1 = 2**

**chanageInt(number1)**

**print("number:",number1)**

**which one of the following result is CORRECT?**

1. **changeInt: number2= 3 number: 3**
2. **changeInt: number2= 3 number: 2**
3. **number: 2 changeInt: number2= 2**
4. **number: 2 changeInt: number2= 3**

### 17. **The the following function definition:**

**class Hello():**

**pass**

**which one of the following statement is INCORRECT (select all that apply)?**

1. **The instantiated object contains \_\_dir\_\_() method.**
2. **The instantiated object contains \_\_hash\_\_() method.**
3. **The instantiated object contains \_\_dir\_\_() method, but not \_\_hash\_\_().**
4. **The instantiated object contains no its own methods since it did not define any.**

### 18. What is the output of the following piece of code?

**class hello():**

**def showInfo(sef):**

**print(self.x)**

**which one of the following statement is CORRECT (select all that apply)?**

1. **Class hello can not be instantiated**
2. **Class hello can be instantiated**
3. **Class hello can be instantiated, however the call to “showInfo” method will fail**
4. **Class hello can be instantiated and the “showInfo” method can be called without error**

### 19. **For the follow Python class definition**:

**class Hello():**

**def \_\_init\_\_(self, name)**

**self.name=name**

**def showInfo(self)**

**print(self.name)**

**which one of the following code segments will execute without error?**

1. **h = Hello**

**h.showInfor()**

1. **h = Hello()**

**h.showInfor(‘John’)**

1. **h = Hello(‘John’)**

**h.showInfor()**

1. **h = Hello(‘admin’)**

**1.showInfor**

### 20. What is the output of the following piece of code if the user enters two lines containing 2 and 4 respectively?

**try:**

**number = int(input("Please enter the number："))**

**print("Number:",number)**

**print("=======hello======")**

**except Exception as e:**

**# report error**

**print("Exception occurred： ",e)**

**else:**

**print("All good!")**

**finally: #clean up everything**

**print("finally")**

**print("end")**

**If user entered “1a”, which one of the following result is correct?**

1. **Number: 1 invalid literal for int() with base 10:**

**finally**

**end**

1. **Exception occurred: invalid literal for int() with base 10:**

**finally**

**end**

1. **=======hello======**

**Exception occurred: invalid literal for int() with base 10:**

**finally**

**End**

1. **All above**

### 21. What is the correct output of the following snippet?

**print( 0.1 + 0.2 == 0.3)**

1. **False**
2. **-1**
3. **0**
4. **while**

### 22. What is the correct output of the following snippet?

**ls = [3.5, “Python”, [10, “LIST”], 3.6]**

**ls[2][-1][1]**

1. **I**
2. **P**
3. **Y**
4. **10**

### 23. **For str = “python”, what is the correct statement to capitalize the “str”**:

1. **print(str[0].upper()+str[1:])**
2. **print(str[1].upper()+str[-1:1])**
3. **print(str[0].upper()+str[1:-1])**
4. **print(str[0].upper()+str[2:])**

### 24. **The follow Python dictionary of color coding, select the answer that will display “seashell” color code:**

**DictColor = {“seashell”: 123, “gold”: 2342, “pink”: 823, “brown”:456, “purple”:554,“tomato”:735}**

1. **print(DictColor.keys())**
2. **print(DictColor[‘123’])**
3. **print(DictColor.values())**
4. **print(DictColor[‘seashell’])**

### 25. **Select the correct result for the following Python code snippet:**

**s =[“seashell”,“gold”,“pink”,“brown”,“purple”,“tomato”]**

**print(s[1:4:2])**

1. **[‘gold’, ‘pink’, ‘brown’]**
2. **[‘gold’, ‘pink’]**
3. **[‘gold’, ‘pink’, ‘brown’, ‘purple’, ‘tomato’]**
4. **[‘gold’, ‘brown’]**

### 26. **Select the correct result for the following Python code snippet:**

**Ls = [[1,2,3],[[4,5],6],[7,8]]**

**print(len(ls))**

1. **3**
2. **4**
3. **8**
4. **1**

### 27. What is the output of the following snippet?

**ls = [“2020”, “20.20”, “Python”]  
ls.append(2020)  
ls.append([2020, “2020”])**

**print(ls)**

1. **[‘2020’, ‘20.20’, ‘Python’, 2020]**
2. **[‘2020’, ‘20.20’, ‘Python’, 2020, [2020, ‘2020’]]**
3. **[‘2020’, ‘20.20’, ‘Python’, 2020, [‘2020’]]**
4. **[‘2020’, ‘20.20’, ‘Python’, 2020, 2020, ‘2020’]**

### 28. What is the output of the following snippet?

**a = [“a”, “b”, “c”]  
b = a[::-1]**

**print(b)**

1. **[‘a’, ‘b’, ‘c’]**
2. **‘c’, ‘b’, ‘a’**
3. **‘a’, ‘b’, ‘c’**
4. **[‘c’, ‘b’, ‘a’]**

### 29. What is the output of the following snippet?

**dat=[‘1’, ‘2’, ‘3’, ‘0’, ‘0’, ‘0’]  
for item in dat:  
 if item == ‘0’:  
 dat.remove(item)  
print(dat)**

1. **[‘1’, ‘2’, ‘3’]**
2. **[‘1’, ‘2’, ‘3’, ‘0’, ‘0’]**
3. **[‘1’, ‘2’, ‘3’, ‘0’, ‘0’, ‘0’]**
4. **[‘1’, ‘2’, ‘3’, ‘0’]**

### 30. What is the output of the following snippet?

**s = “the sky is blue”**

**print(s[-4:], s[:-4])**

1. **the sky is blue**
2. **blue is sky the**
3. **sky is blue the**
4. **blue the sky is**