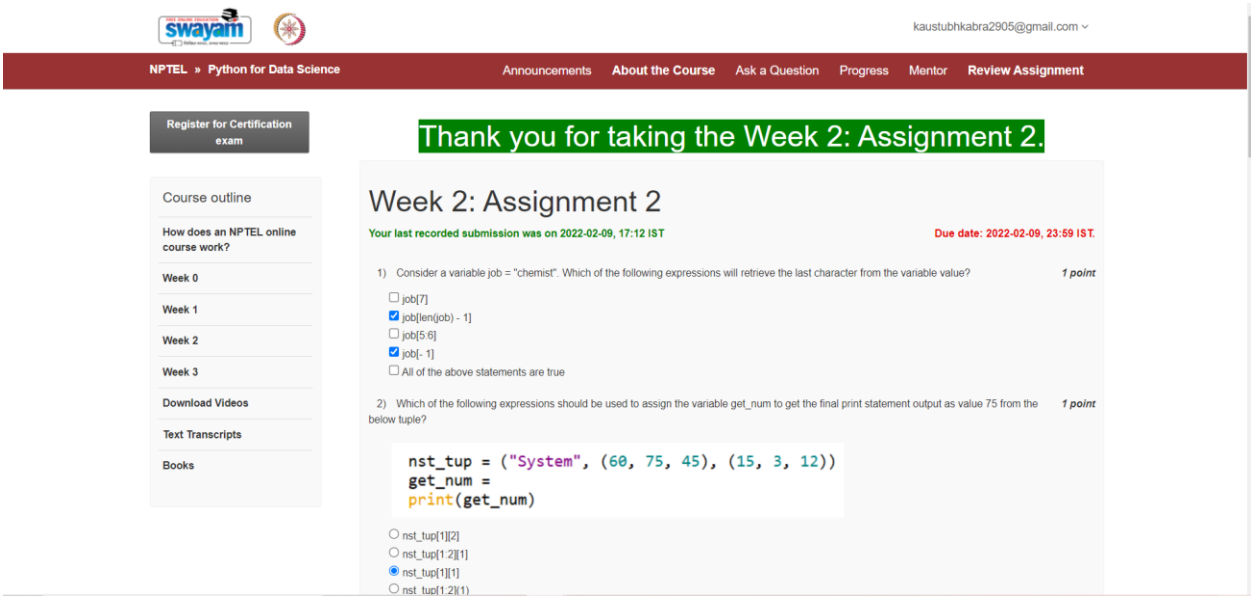

3) What would be the output for the following set of statements? *1 point*

```
new_list = [13, 23, 18, 64, 51]
new_list[4] = True
print(new_list)
```

- [13, 23, 18, 64, 51, “True”]
- [13, 23, 18, 64, True]
- [13, 23, 18, 64, 51, True]
- Index Error

4) What result does the final statement print? *1 point*

```
scores = (12, 25, 32, 39,44)
f_score, *bw_s, l_score = scores
print("Output is :",f_score,"and",bw_s,"and",l_score)
```

- Output is: 12, (25, 32, 39), 44
- Output is: 12 and (25, 32, 39) and 44
- Output is: 12 and 25 and 39
- ValueError: Too many values to unpack
- Output is: 12 and [25, 32, 39] and 44

5) When the following set of instructions are executed, how many times does the vowel "e" appear in the result? **1 point**

```
word = "occurrence"
for ltr in range(len(word)):
    if ltr % 3 == 0:
        print(word[ltr])
```

- ○ 1
- ○ "e" is not printed
- ◉ 2
- ○ 4
- ○ None of the above

6) Which of the following options, when executed, will result in a tuple? **1 point**

- ☑ t = (2,2)
- ☐ y =['h','4','3']
- ☑ r = ('v',)
- ☐ s = ('w')
- ☐ All except b

7) Which statement/ statements will result in an empty datastructure? **1 point**

- ○ dict1 = {}
- ○ tup1 = ()
- ○ st1 = set()
- ○

```
toy = "baseball"
gt_str = toy[2:2]
print("Output:",gt_str)
```

- ◉ All of the above

8) Consider a dictionary city created with the following keys and values. **1 point**

```
city = {'Delhi':3, 'Bengaluru':5, 'Chennai':4, 'Kolkata':6, 'Mumbai':7}
```

Through which all possible way / ways can we access the value 5 from the dictionary city?

- ☑ city['Bengaluru']
- ☐ city.get['Bengaluru']
- ☐ city.values()[1]
- ☑ list(city.values())[1]
- ☐ None of the above

9) Count the number of elements in the below list. **1 point**

```
list_tens = [["October", 24, ["2021"]]]
```

- ○ 2
- ◉ 1
- ○ 3
- ○ 0
- ○ None of the above

10) A datastructure is defined as celebrate = set('Nativity Day'). What are the possible outputs if celebrate is printed? **1 point**

1. {'v', 'N', 't', 'i', 'y', 'a', 'D'}
2. {'v', 'N', 't', 'i', 'y', 'a', 'D', ' '}
3. {'v', 'N', 't', 'i', 'y', 'a', 'D', ' '}
4. {'v', 't', 'i', 'y', 'a', 'D', ' ', 'N'}

- ○ 1
- ○ 1 and 3
- ○ 1,2,3
- ○ 3 and 4
- ◉ All are correct

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Run Code

In [1]:
```
# Consider a variable job = "chemist". Which of the following expressions will
# retrieve the last character from the variable value?

job = "chemist"
```

In [2]:
```
job[7]
```

```
---------------------------------------------------------------------------
IndexError                                Traceback (most recent call last)
~\AppData\Local\Temp/ipykernel_5592/38642040.py in <module>
----> 1 job[7]

IndexError: string index out of range
```

In [3]:
```
job[len(job) - 1]
```

Out[3]: 't'

In [4]:
```
job[5:6]
```

Out[4]: 's'

In [5]:
```
job[- 1]
```

Out[5]: 't'

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Run Code

In [6]:
```
# Which of the following expressions should be used to assign the variable get_num
# to get the final print statement output as value 75 from the below tuple?

nst_tup = ("System",(60, 75, 45),(15, 3, 12))
get_num = nst_tup[1][1]
print(get_num)
```

```
75
```

In [7]:
```
# What would be the output for the following set of statements?

new_list = [13, 23, 18, 64, 51]
new_list[4] = True
print(new_list)
```

```
[13, 23, 18, 64, True]
```

In [8]:
```
# What result does the final statement print?

scores = (12, 25, 32, 39, 44)
f_score,*bw_s, l_score = scores
print("Output is :",f_score,"and",bw_s,"and",l_score)
```

```
Output is : 12 and [25, 32, 39] and 44
```

In [9]:
```
# When the following set of instructions are executed, how many times does the vowel "e" appear in the result?

word = "occurrence"
for ltr in range(len(word)):
    if ltr % 3 ==0:
        print(word[ltr])
```

```
o
u
e
e
```

In [10]:
```
# Which of the following options, when executed, will result in a tuple?

t = (2,2)
y =['h','4','3']
r = ('v',)
s = ('w')
```

In [11]:
```
type(t)
```

Out[11]: tuple

In [12]:
```
type(y)
```

Out[12]: list

In [13]:
```
type(r)
```

Out[13]: tuple

In [14]:
```
type(s)
```

Out[14]: str

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Run Code

In [15]:
```
# Which statement/ statements will result in an empty datastructure?

dict1 = {}
print(dict1)

tup1 = ()
print(tup1)

st1 = set()
print(st1)

toy = "baseball"
gt_str = toy[2:2]
print("output:",gt_str)
```

```
{}
()
set()
output:
```

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Run Code

In [16]:
```
# Consider a dictionary city created with the following keys and values.
# Through which all possible way / ways can we access the value 5 from the dictionary city?

city = {'Delhi':3, 'Bengaluru':5, 'Chennai':4, 'Kolkata':6, 'Mumbai':7 }
```

In [17]:
```
city['Bengaluru']
```

Out[17]: 5

In [18]:
```
city.get['Bengaluru']
```

```
---------------------------------------------------------------------------
TypeError                                 Traceback (most recent call last)
~\AppData\Local\Temp/ipykernel_5592/2161206439.py in <module>
----> 1 city.get['Bengaluru']

TypeError: 'builtin_function_or_method' object is not subscriptable
```

In [19]:
```
city.values()[1]
```

```
---------------------------------------------------------------------------
TypeError                                 Traceback (most recent call last)
~\AppData\Local\Temp/ipykernel_5592/1294878199.py in <module>
----> 1 city.values()[1]

TypeError: 'dict_values' object is not subscriptable
```

In [20]:
```
list(city.values())[1]
```

Out[20]: 5

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Run Code

```
TypeError: 'builtin_function_or_method' object is not subscriptable
```

In [19]:
```
city.values()[1]
```

```
---------------------------------------------------------------------------
TypeError                                 Traceback (most recent call last)
~\AppData\Local\Temp/ipykernel_5592/1294878199.py in <module>
----> 1 city.values()[1]

TypeError: 'dict_values' object is not subscriptable
```

In [20]:
```
list(city.values())[1]
```

Out[20]: 5

In [21]:
```
# Count the number of elements in the below list.

list_tens = [["October", 24, ["2021"]]]
len(list_tens)
```

Out[21]: 1

In [ ]: