DS Lab Week #1

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Q1)

```
q1.py
          ×
💠 q1.py > ...
      counter = 1000
      miles = 1000.0
      name = "John"
      print(counter)
      print(miles)
      print(name)
                               TERMINAL
PROBLEMS OUTPUT DEBUG CONSOLE
$ /usr/bin/python3 "/home/190905494/Documents/190905494/Week 1/q1.py"
1000
1000.0
John
$
```

Q2)

```
# q2.py X

# q2.py > ...

1     a = b = c = 1
2     a,b,c = 1,2, "John"

3     print[(a, b, c)]

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

$ /usr/bin/python3 "/home/190905494/Documents/190905494/Week 1/q2.py"
1 2 John
$ []
```

Q3)

Q4)

```
🗣 q4.ру
          ×
q4.py > ...
      str = 'Hello World!'
      print(str)
      print(str[0])
      print(str[2:5])
      print(str[2:])
      print (str * 2)
      print(str * 2)
      print(str + "TEST")
PROBLEMS OUTPUT DEBUG CONSOLE
                               TERMINAL
$ /usr/bin/python3 "/home/190905494/Documents/190905494/Week 1/q4.py"
Hello World!
Н
llo
llo World!
Hello World!Hello World!
Hello World!Hello World!
Hello World!TEST
$
```

Q5)

Q6)

Q7)_

Q8)

```
# q8.py X

# q8.py > ...
1    str = "this is a string example... wow!!"
2    print(str.count('s'))

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

$ /usr/bin/python3 "/home/190905494/Documents/190905494/Week 1/q8.py"
3
$ [
```

Q9)

Q10)

```
# q10.py x

q10.py > ...

1    str = "THIS IS STRING EXAMPLE....WOW!!!"
2    print (|str.lower()|)

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

$ /usr/bin/python3 "/home/190905494/Documents/190905494/Week 1/q10.py"
this is string example....wow!!!
$ [
```

Q11)

```
# q11.py x

q11.py > ...

1    str = "this is string example....wow!!! this is really string"
2    print (str.replace("is", "was"))

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

$ /usr/bin/python3 "/home/190905494/Documents/190905494/Week 1/q11.py"
thwas was string example....wow!!! thwas was really string
$ | |
```

Q12)

```
q12.py x

q12.py > ...
1    str = "this is string example...wow!!!";
2    print (|str.swapcase()|)

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

$ /usr/bin/python3 "/home/190905494/Documents/190905494/Week 1/q12.py"
THIS IS STRING EXAMPLE....WOW!!!
$ ||
```

Q13)

```
q14.py
            ×
 🕏 q14.py > ...
        list = ['abcd', 786, 2.23, 'john', 70.2]
        tinylist = [123, 'john']
       print(list)
   4 print(list[0])
       print(list[1:3])
       print(list[2:])
       print(tinylist * 2)
        print((list + tinylist))
PROBLEMS OUTPUT DEBUG CONSOLE
                                      TERMINAL
$ /usr/bin/python3 "/home/190905494/Documents/190905494/Week 1/q14.py"
['abcd', 786, 2.23, 'john', 70.2]
abcd
 [786, 2.23]
[2.23, 'john', 70.2]
[123, 'john', 123, 'john']
['abcd', 786, 2.23, 'john', 70.2, 123, 'john']
```

Q15)

```
q15.py
           ×
q15.py > ...
       list = ['physics', 'chemistry', 1997, 2000]
       list.append('maths')
       print(list)
  4 del list[2]
      print(list)
       print('physics' in list)
       print('english' in list)
     print(len(list))
       print(list.count('physics'))
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
$ /usr/bin/python3 "/home/190905494/Documents/190905494/Week 1/q15.py"
['physics', 'chemistry', 1997, 2000, 'maths']
['physics', 'chemistry', 2000, 'maths']
True
False
4
1
$
```

Q16)

```
🕏 q16.py
           ×
🕏 q16.py > ...
      list = ['physics','chemistry', 1997, 2000]
       list.pop()
       print(list)
       list = ['physics','chemistry', 1997, 2000]
       list.insert(2, 'maths')
       print(list)
       list = ['physics','chemistry', 1997, 2000]
       list.remove('chemistry')
       list = ['physics','chemistry', 1997, 2000]
       list.reverse()
       print(list)
 11
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
$ /usr/bin/python3 "/home/190905494/Documents/190905494/Week 1/q16.py"
['physics', 'chemistry', 1997]
['physics', 'chemistry', 'maths', 1997, 2000]
[2000, 1997, 'chemistry', 'physics']
```

Q17)

Q18)

Q19)

Q20)

```
q20.py
          ×
🕏 q20.py > ...
      x = 5
       print('Before 5')
       if x==5:
           print('this is 5')
           print('still 5')
       print('After 5')
       print('Before 6')
       if x== 6:
           print(('this is 6'))
       print('After 6')
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
$ /usr/bin/python3 "/home/190905494/Documents/190905494/Week 1/q20.py"
Before 5
this is 5
still 5
After 5
Before 6
After 6
 $
```

Q21)

```
🕏 q21.py
          ×
🕏 q21.py > ...
      x=float(input("Enter a number: "))
      if x < 20:
          print('Below 20')
      elif x < 10:
          print('Below 10')
      else:
           print('something else')
PROBLEMS OUTPUT DEBUG CONSOLE
                               TERMINAL
$ /usr/bin/python3 "/home/190905494/Documents/190905494/Week 1/q21.py"
Enter a number: 15
Below 20
$
```

Q22)

Q23)

Q24)

Q25)

```
q25.py
💠 q25.py > ...
      stud = ['Ram', 'Vijay', 'Anu', 'Ramesh', 'suja']
      for k in stud:
           print('Hello: ', k)
      print('done')
PROBLEMS OUTPUT DEBUG CONSOLE
                               TERMINAL
$ /usr/bin/python3 "/home/190905494/Documents/190905494/Week 1/q25.py"
Hello: Ram
Hello: Vijay
Hello: Anu
Hello: Ramesh
Hello: suja
done
$ [
```

Q26)

```
q26.py
          ×

₱ q26.py > ...
      for i in range(5):
          print(i)
          if i > 2:
       print('Bigger than 2')
               print('Done with i', i)
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
$ /usr/bin/python3 "/home/190905494/Documents/190905494/Week 1/q26.py"
1
2
Bigger than 2
Done with i 3
Bigger than 2
Done with i 4
$
```

Q27)

Q28)

Q29)

Q30)

Q31)

Q32)

Q33)