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CH.EN.U4CSE20079

COGNIZANCE

Q1:

```python
a = int(input("First Number: "))
b = int(input("Last Number: "))

v = []
for i in range(a, b + 1):
    v.append(i)
    for j in range(0, 5):
        v.append(0)
print(v)
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   **TERMINAL**   GITLENS   > Python

```
/usr/local/bin/python3 /Users/vedamsh69/Desktop/Cognizance/q1.py

The default interactive shell is now zsh.
To update your account to use zsh, please run `chsh -s /bin/zsh`.
For more details, please visit https://support.apple.com/kb/HT208050.
vedamshs-Mac:Cognizance vedamsh69$ /usr/local/bin/python3 /Users/vedamsh69/Desktop/Cognizance/q1.py
First Number: 5
Last Number: 10
[5, 0, 0, 0, 0, 0, 6, 0, 0, 0, 0, 0, 7, 0, 0, 0, 0, 0, 8, 0, 0, 0, 0, 0, 9, 0, 0, 0, 0, 0, 10, 0, 0, 0, 0, 0]
vedamshs-Mac:Cognizance vedamsh69$
```

Q2:

```python
a = [1, 0, 0, 0, 1, 0]
b = [0, 0, 1, 1, 0, 1]

if a==b:
    print("True")
else:
    print("False")
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   **TERMINAL**   GITLENS

```
/usr/local/bin/python3 /Users/vedamsh69/Desktop/Cognizance/q2.py

The default interactive shell is now zsh.
To update your account to use zsh, please run `chsh -s /bin/zsh`.
For more details, please visit https://support.apple.com/kb/HT208050.
vedamshs-Mac:Cognizance vedamsh69$ /usr/local/bin/python3 /Users/vedamsh69/Desktop/Cognizance/q2.py
False
vedamshs-Mac:Cognizance vedamsh69$
```

Q3:

```python
import numpy as np

print(0 * np.nan)
print(np.nan != np.nan)
print(np.inf > np.nan)
print(np.nan - np.nan)
print(0.3 == 3 * 0.1)
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   **TERMINAL**   GITLENS

```
/usr/local/bin/python3 /Users/vedamsh69/Desktop/Cognizance/q3.py

The default interactive shell is now zsh.
To update your account to use zsh, please run `chsh -s /bin/zsh`.
For more details, please visit https://support.apple.com/kb/HT208050.
vedamshs-Mac:Cognizance vedamsh69$ /usr/local/bin/python3 /Users/vedamsh69/Desktop/Cognizance/q3.py
nan
True
False
nan
False
vedamshs-Mac:Cognizance vedamsh69$
```

Q4:

```python
import pandas as pd

ser = pd.Series(['amrita', 'school', 'of', 'engineering', 'chennai', 'campus'])
n = len(ser)
temp = ""
for a in range(0, n):
    temp = temp+str(ser.get(key=a)).capitalize()+" "
```

PROBLEMS ①   OUTPUT   DEBUG CONSOLE   **TERMINAL**   GITLENS

```
/usr/local/bin/python3 /Users/vedamsh69/Desktop/Cognizance/q4.py

The default interactive shell is now zsh.
To update your account to use zsh, please run `chsh -s /bin/zsh`.
For more details, please visit https://support.apple.com/kb/HT208050.
vedamshs-Mac:Cognizance vedamsh69$ /usr/local/bin/python3 /Users/vedamsh69/Desktop/Cognizance/q4.py
Amrita School Of Engineering Chennai Campus
vedamshs-Mac:Cognizance vedamsh69$ /usr/local/bin/python3 /Users/vedamsh69/Desktop/Cognizance/q4.py
Amrita School Of Engineering Chennai Campus
vedamshs-Mac:Cognizance vedamsh69$
```

Q5:

```
q5.py                X

q5.py > ...
1    import numpy as mochi
2
3    arr1 = mochi.array([[2, -7, 10], [12, -4, 0]])
4    arr2 = mochi.array([[2, -3, 5], [-10, 42, 3]])
5
6    arrAdd = mochi.add(arr1, arr2)
7    arrMul = mochi.multiply(arr1, arr2)
8    print("Addition of two array:\n", arrAdd)
9    print("Multiplication of two array:\n", arrMul)
```

PROBLEMS 5   OUTPUT   DEBUG CONSOLE   **TERMINAL**   GITLENS

```
/usr/local/bin/python3 /Users/vedamsh69/Desktop/Cognizance/q5.py

The default interactive shell is now zsh.
To update your account to use zsh, please run `chsh -s /bin/zsh`.
For more details, please visit https://support.apple.com/kb/HT208050.
vedamshs-Mac:Cognizance vedamsh69$ /usr/local/bin/python3 /Users/vedamsh69/Desktop/Cognizance/q5.py
Addition of two array:
 [[  4 -10  15]
 [  2  38   3]]
Multiplication of two array:
 [[   4   21   50]
 [-120 -168    0]]
vedamshs-Mac:Cognizance vedamsh69$ █
```