

QUESTION 1

```
import numpy as np
    a = np.array([10_11_12_13_14])
    print(a)
    nz = 5
    Z = np.zeros(len(a) + (len(a)-1)*(nz))
    Z@::nz+1] = a
    print(np.floor(Z))

E:\PERSONAL\Projects\pythonProject1\venv\Scripts\python.exe E:/PERSONAL/Projects/pythonProject1/main.py
[10 11 12 13 14]
[10. 0. 0. 0. 0. 0. 11. 0. 0. 0. 0. 12. 0. 0. 0. 0. 0.
13. 0. 0. 0. 0. 0. 14.]

Process finished with exit code 0
```

QUESTION 2

```
E:\PERSONAL\Projects\pythonProject1\venv\Scripts\python.exe E:/PERSONAL/Projects/pythonProject1/main.py
size of the list : 1
enter the first array : 10001
enter the second array : 2002
first array :
[10001]
second array :
[2002]
False

Process finished with exit code 0
```

QUESTION 3

```
dsn E\PERSONAL\Projects\okdsn

venv library root

main.py
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main ×

E:\PERSONAL\Projects\okdsn\venv\Scripts\python.exe E:/PERSONAL/Projects/okdsn/main.py

nan
True
False
nan
False

import numpy as np
print(0 * np.nan)
print(np.nan != np.nan)
print(np.inf > np.nan)
print(0.3 == 3 * 0.1)

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QUESTIONS 4

```
import pandas as pd
result=''
length=int(input("Enter The Length Of The Array:"))
statement=[linput("Enter The Element:") for i in range(length)]
s_statement=[linput("Enter The Element:") for i in range(length)]
s_statement=[linput("Enter The Element:") for i in range(length)]
s_statement=[linput("In range(len(statement)):
    result=[""+s_statement])
print(result.title())
if length==statement:
    print("True")

if length==statement

print("True")

if length==statement

E:\PERSONAL\Projects\pythonProject1\venv\Scripts\python.exe E:/PERSONAL/Projects/pythonProject1/main.py
Enter The Length Of The Array: 3
Enter The Element:vishvo
Ent
```

QUESTION 5 (1)

QUESTION 5 (2))

```
import numpy as np
q = np.identity(3)
print("\nMatrix a : \n", q)

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E:\PERSONAL\Projects\pythonProject1\venv\Scripts\python.exe E:/PERSONAL/Projects/pythonProject1/main.py

Matrix a :
[[1. 0. 0.]
[0. 1. 0.]
[0. 0. 1.]]

Process finished with exit code 0
```