

**TASK-8**  
**COGNIZANCE**

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## 1 QUESTION OUTPUT:

```
PS C:\Users\abhia\OneDrive\Documents\Cognizance\Task-8> & 'C:\Users\abhia\AppData\Local\Microsoft\WindowsApps\python3.10.exe' 'c:\Users\abhia\.vscode\extensions\ms-python.python-2022.2.1924087327\pythonFiles\lib\python\debugpy\launcher' '64968' '--' 'c:\Users\abhia\OneDrive\Documents\Cognizance\Task-8\1.py'
First Number:13
Last Number:19
[13. 0. 0. 0. 0. 0. 14. 0. 0. 0. 0. 0. 15. 0. 0. 0. 0. 0.
16. 0. 0. 0. 0. 0. 17. 0. 0. 0. 0. 0. 18. 0. 0. 0. 0. 0.
19.]
```

## 2 QUESTION OUTPUT:

```
PS C:\Users\abhia\OneDrive\Documents\Cognizance\Task-8> & 'C:\Users\abhia\AppData\Local\Microsoft\WindowsApps\python3.10.exe' 'c:\Users\abhia\.vscode\extensions\ms-python.python-2022.2.1924087327\pythonFiles\lib\python\debugpy\launcher' '65024' '--' 'c:\Users\abhia\OneDrive\Documents\Cognizance\Task-8\2.py'
A AND B ARRAYS ARE NOT EQUAL
```

## 3 QUESTION OUTPUT:

```
PS C:\Users\abhia\OneDrive\Documents\Cognizance\Task-8> c++; cd 'c:\Users\abhia\OneDrive\Documents\Cognizance\Task-8'; & 'C:\Users\abhia\AppData\Local\Microsoft\WindowsApps\python3.10.exe' 'c:\Users\abhia\.vscode\extensions\ms-python.python-2022.2.1924087327\pythonFiles\lib\python\debugpy\launcher' '65061' '--' 'c:\Users\abhia\OneDrive\Documents\Cognizance\Task-8\3.py'
nan
True
False
nan
False
```

## 4 QUESTION OUTPUT:

```
PS C:\Users\abhia\OneDrive\Documents\Cognizance\Task-8> c++; cd 'c:\Users\abhia\OneDrive\Documents\Cognizance\Task-8'; & 'C:\Users\abhia\AppData\Local\Microsoft\WindowsApps\python3.10.exe' 'c:\Users\abhia\.vscode\extensions\ms-python.python-2022.2.1924087327\pythonFiles\lib\python\debugpy\launcher' '49292' '--' 'c:\Users\abhia\OneDrive\Documents\Cognizance\Task-8\4.py'
Amrita School Of Engineering Chennai Campus
```

## 5(i) QUESTION OUTPUT: Custom sequence generation

```
PS C:\Users\abhia\OneDrive\Documents\Cognizance\Task-8> cd 'c:\Users\abhia\OneDrive\Documents\Cognizance\Task-8'; & 'C:\Users\abhia\AppData\Local\Microsoft\WindowsApps\python3.10.exe' 'c:\Users\abhia\.vscode\extensions\ms-python.python-2022.2.1924087327\pythonFiles\lib\python\debugpy\launcher' '65367' '--' 'c:\Users\abhia\OneDrive\Documents\Cognizance\Task-8\5'
[ 1.  2.  4.  8. 16. 32.]
PS C:\Users\abhia\OneDrive\Documents\Cognizance\Task-8> █
```

## 5(ii) QUESTION OUTPUT: Identity matrix

```
PS C:\Users\abhia\OneDrive\Documents\Cognizance\Task-8> cd 'c:\Users\abhia\OneDrive\Documents\Cognizance\Task-8'; & 'C:\Users\abhia\AppData\Local\Microsoft\WindowsApps\python3.10.exe' 'c:\Users\abhia\.vscode\extensions\ms-python.python-2022.2.1924087327\pythonFiles\lib\python\debugpy\launcher' '65400' '--' 'c:\Users\abhia\OneDrive\Documents\Cognizance\Task-8\5(ii).py'
Enter the dimension of identity matrix: 3
[[1 0 0]
 [0 1 0]
 [0 0 1]]
```