TASK 8 [PYTHON - MEDICORE LVL]

OUTPUT:

QUESTION-1

```
import numpy as np
ne[]
a=np.array([0, 0, 0, 0, 0])
b=int(input("enter First Number :"))
c=int(input("enter Last Number :"))
f in anage(b, c+1):
    n.append(i)
n=np.array(n)
print(np.float_(n))
```

QUESTION-2

```
import numpy as np
a=np.array([1, 0, 0, 0, 1, 1, 0])
print("First array:", a)
b=np.array([0, 0, 1, 1, 0, 1])
print("Second Array:",
c= a=b-in range(0,a._len_()):
    if ali=bi[i]:
        c=rrue
    else:
        c=False
        break
print(c)
```

QUESTION-3

```
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)
```

QUESTION-4

```
import pandas as pd
a=pd.Series(['amrita', 'school', 'of', 'engineering', 'chennai', 'campus'])
for i in a:
    print(i.capitalize(), end=" ")
```

QUESTION-5(1)

```
# addition of 2 numpy arrays
import numpy as np
a=np.array([1,0,1,0,1])
benp.array([1,2,3,4,5])
print("The product| of 2 numpy arrays is :", a*b)
```

QUESTION-5(2)

```
import numpy as np
a=np.identity(3,dtype=int)
print("The identity matrix is :")
print(a)
```

```
Python 3.10.2 (v3.10.2:a58ebcc701, Jan 13 2022, 14:50:16) [Clang 13.0.0 (clang-1300.0.29.30)]
on darwin
Type "help", "copyright", "credits" or "license()" for more information.

=========== RESTART: /Users/raaghavikr/Documents/Question 5(2).py ===========

The product of 2 numpy arrays is : [1 0 3 0 5]
```