Screenshots of Python Outputs of Task-8

Question-1

```
(venv) PS C:\Users\skand\Desktop\Cognizance> & c:/Users/skand/Desktop/Cognizance/venv/Scripts/python.exe c:/Users/skand/Desktop/Cognizance/Question-1.py
Enter the size of array:4
Element 0
10
Element 1
11
Element 2
12
Element 3
13
The vector you have entered is  [10 11 12 13]
The modified array is
[10.  0.  0.  0.  0.  0. 11.  0.  0.  0.  0.  0. 12.  0.  0.  0.  0.  0. 13.]
(venv) PS C:\Users\skand\Desktop\Cognizance>
```

Question-2

```
(venv) PS C:\Users\skand\Desktop\Cognizance> & c:/Users/skand/Desktop/Cognizance/venv/Scripts/python.exe c:/Users/skand/Desktop/Cognizance/Question-2.py
Enter size of first array :4
Element 0
1
Element 1
2
Element 2
3
Element 3
4
The first array is  [1 2 3 4]
Enter size of second array :4
Element 0
1
Element 1
2
Element 2
3
Element 3
4
The second array is  [1 2 3 4]
Are the two arrays equal?  True
(venv) PS C:\Users\skand\Desktop\Cognizance>
```

Question-3

```
(venv) PS C:\Users\skand\Desktop\Cognizance> & c:/Users/skand/Desktop/Cognizance/venv/Scripts/python.exe c:/Users/skand/Desktop/Cognizance/Question-3.py
nan
True
False
nan
False
(venv) PS C:\Users\skand\Desktop\Cognizance>
```

Question-4

```
(venv) PS C:\Users\skand\Desktop\Cognizance> & c:/Users/skand/Desktop/Cognizance/venv/Scripts/python.exe c:/Users/skand/Desktop/Cognizance/Question-4.py
Enter the number of words in your sentence:7
The 1 word of the sentence
i
The 2 word of the sentence
am
The 3 word of the sentence
inevitable
The 4 word of the sentence
and
The 5 word of the sentence
i
The 6 word of the sentence
am
The 7 word of the sentence
ironman
The sentence is
i am inevitable and i am ironman
The changed sentence is
I Am Inevitable And I Am Ironman
(venv) PS C:\Users\skand\Desktop\Cognizance>
```

Question-5(1)

```
(venv) PS C:\Users\skand\Desktop\Cognizance> & c:/Users/skand/Desktop/Cognizance/venv/Scripts/python.exe c:/Users/skand/Desktop/Cognizance/question-5.py
Enter size of first array :4
Element 0
1
Element 1
2
Element 2
3
Element 3
4
The first array is  [1 2 3 4]
Enter size of second array :4
Element 0
1
Element 1
2
Element 2
3
Element 3
4
The second array is  [1 2 3 4]
The addition of two arrays is
[2 4 6 8]
(venv) PS C:\Users\skand\Desktop\Cognizance>
```

Question-5(ii)

```
(venv) PS C:\Users\skand\Desktop\Cognizance> & c:/Users/skand/Desktop/Cognizance/venv/Scripts/python.exe "c:/Users/skand/Desktop/Cognizance/question-5 (ii).py"
Enter size of number of row(s) of first matrix :2
Enter size of number of column(s) of first matrix :2
Enter the elements of the matrix consecutively with spaces rowwise
1 2 3 4
The first matrix is
[[1 2]
 [3 4]]
Enter size of number of row(s) of second matrix :2
Enter size of number of column(s) of second matrix :2
Enter the elements of the matrix consecutively with spaces rowwise
1 2 3 4
The second matrix is
[[1 2]
 [3 4]]
The multiplication of two matrix is
[[ 7 10]
 [15 22]]
(venv) PS C:\Users\skand\Desktop\Cognizance>
```