

NumPy

Task Requirements Document





1. Write a NumPy program to create a new shape to an array without changing its data.

```
Arr1 = np.array([1, 21, 32, 43, 54, 65, 5, 44, 10, 11, 12, 13])
```

2. Write a NumPy program to change the data type of an array.

```
Arr2 = np.array([[24, 4, 6, 3], [61, 8, 10, 91]], np.int64)
```

3. Write a NumPy program to create an array of 3,5 shape and swap column 2 with column 3.

```
Arr3 = np.arange(15).reshape(3,5)
```

- 4. Write a NumPy program to create one-dimensional array of four, five and six digit numbers.
- 5. Write a NumPy program to find the missing data in a given array.

- 6. Write a NumPy program to add a new row to an empty NumPy array.
- 7. Write a NumPy program to convert a Python dictionary to a NumPy ndarray.
- 8. Write a NumPy program to check whether the dimensions of two given arrays are same or not.





Task Programming Language and Technologies

Python



Evaluation Criteria

- 50% on functional Code.
- 40% program workflow.
- 10% adding extra features that help achieve better results.



Deadline

27/11/2024 at 11:59 pm



Notes²

- Submit your unique solution.
- Submit your solution as ipynb format.
- Have fun and enjoy ⊚.