Program 5

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1 PROGRAM 5

Aim : Write a numpy program to create a 5 x 4 matrix with values ranging from 12 to 32. Print its shape, type and data type

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```python
[1]: import numpy as np
     arr=np.arange(1,15)
     print("The array is ",arr)
     print("The size of the array is ",arr.size)
     num=int(input("Enter number to update the 8th element :"))
     arr[8]=num
     print("The updated array is :",arr)
     print("The reversed array is :",arr[::-1])
     newarr=arr.reshape(7,2)
     print("The 7*2 matrix is :\n",newarr)
```

```
The array is  [ 1  2  3  4  5  6  7  8  9 10 11 12 13 14]
The size of the array is  14
Enter number to update the 8th element :33
The updated array is : [ 1  2  3  4  5  6  7  8 33 10 11 12 13 14]
The reversed array is : [14 13 12 11 10 33  8  7  6  5  4  3  2  1]
The 7*2 matrix is :
 [[ 1  2]
 [ 3  4]
 [ 5  6]
 [ 7  8]
 [33 10]
 [11 12]
 [13 14]]
```