

ArrayQuestions

February 6, 2025

```
[11]: """1. Write a python program to find the sum of all even numbers in a given array
↳ Numpy array using array function."""
#using loop to take array elements from user
import numpy as np
a = int(input("Enter the number of array elements you want to give: "))
lst = []
for i in range(a):
    x = int(input(f'Enter the element number {i+1}: '))
    lst.append(x)
print(f'The array is: {lst}')

#for now the type is list lets make it an array
arr = np.array(lst)
print(f'Even numbers of array are: {arr[arr%2 == 0]}')
print(f'The sum of all even numbers is: {sum(arr[arr%2 == 0])}')
```

The array is: [2, 8, 1, 0, 6]
Even numbers of array are: [2 8 0 6]
The sum of all even numbers is: 16

```
[18]: import numpy as np

# Taking subject names as input
subject_names = []
n = int(input("Enter the number of subjects: "))
for i in range(n):
    sub = input("Enter the subject name: ")
    subject_names.append(sub)

print(f'The subjects are: {subject_names}')

# Taking the marks of each subject given by user and storing them in a list
marks = []
for sub in subject_names:
    m = int(input(f'Enter the marks scored in {sub}: '))
    marks.append(m)

arr1 = np.array(marks)
```

```
print(f'Marks greater than 50 are: {arr1[arr1 > 50]}')
```

The subjects are: ['Hindi', 'English', 'Maths', 'IP', 'EVS']

Marks that are greater than 50:

Marks greater than 50 are: [60 80]