Practical 6

Task 1: Single Dimensional Array with 10 elements

```python
array_size = 10
my_array = []

for i in range(array_size):
    value = int(input(f"Enter value for element {i+1}: "))
    my_array.append(value)

min_value = min(my_array)
max_value = max(my_array)
average_value = sum(my_array) / len(my_array)
reversed_array = my_array[::-1]

print("Minimum value:", min_value)
print("Maximum value:", max_value)
print("Average value:", average_value)
print("Reversed array:", reversed_array)
```

Task 2: Two Single Dimensional Arrays with size given by the user

```python
size_array1 = int(input("Enter the size for the first array: "))
size_array2 = int(input("Enter the size for the second array: "))

array1 = []
array2 = []
vector_sum_array = []

for i in range(size_array1):
    value = int(input(f"Enter value for element {i+1}: "))
    array1.append(value)

for i in range(size_array2):
    value = int(input(f"Enter value for element {i+1}: "))
    array2.append(value)

scalar_sum_array1 = sum(array1)
scalar_sum_array2 = sum(array2)

min_size = min(size_array1, size_array2)
for i in range(min_size):
```

```
        vector_sum_array.append(array1[i] + array2[i])

print("Scalar Sum of Array 1:", scalar_sum_array1)
print("Scalar Sum of Array 2:", scalar_sum_array2)
print("Vector Sum Array:", vector_sum_array)
```