

# Exercises

- 1) Write a Python program to create an array of 5 integers and display the array items.
- 2) Write a Python program to append a new item to the end of the array.
- 3) Write a Python program to reverse the order of the items in the array.
- 4) Write a Python program to remove the first occurrence of a specified element from an array.
- 5) Write a Python program to insert a new item before the second element in an existing array.
- 6) Write a Python program to remove a specified item using the index from an array.
- 7) Write a Python program to find the number of occurrences of a specified element in an array.
- 8) Write a Python program to concatenate two arrays.
- 9) Write a Python program to find the common values between two arrays.
- 10) Write a Python program to find the elements in an array that are not present in another array.

# Exercises and solution

- 1) Write a Python program to create an array of 5 integers and display the array items.

```
arr = [1, 2, 3, 4, 5]  
print(arr)
```

- 2) Write a Python program to append a new item to the end of the array.

```
arr = [1, 2, 3, 4, 5]  
arr.append(6)  
print(arr)
```

- 3) Write a Python program to reverse the order of the items in the array.

```
arr = [1, 2, 3, 4, 5]  
arr.reverse()  
print(arr)
```

- 4) Write a Python program to remove the first occurrence of a specified element from an array.

```
arr = [1, 2, 3, 4, 5]  
arr.remove(3)  
print(arr)
```

- 5) Write a Python program to insert a new item before the second element in an existing array

```
arr = [1, 2, 3, 4, 5]
arr.insert(1, 6)
print(arr)
```

- 6) Write a Python program to remove a specified item using the index from an array.

```
arr = [1, 2, 3, 4, 5]
del arr[2]
print(arr)
```

- 7) Write a Python program to find the number of occurrences of a specified element in an array.

```
arr = [1, 2, 3, 4, 3, 5, 3]
count = arr.count(3)
print(count)
```

- 8) Write a Python program to concatenate two arrays.

```
arr1 = [1, 2, 3]
arr2 = [4, 5, 6]
arr3 = arr1 + arr2
print(arr3)
```

- 9) Write a Python program to find the common values between two arrays.

```
arr1 = [1, 2, 3, 4, 5]
arr2 = [4, 5, 6, 7, 8]
common = list(set(arr1) & set(arr2))
print(common)
```

- 10) Write a Python program to find the elements in an array that are not present in another array.

```
arr1 = [1, 2, 3, 4, 5]
arr2 = [4, 5, 6, 7, 8]
not_present = [x for x in arr1 if x not in arr2]
print(not_present)
```