

# Exercises

1. Create a list of your favorite colors and print the list.
2. Create a list of numbers from 1 to 10 and print the list.
3. Create a list of the first 5 even numbers and print the list.
4. Create a list of the first 5 odd numbers and print the list.
5. Create a list of your favorite movies and print the list.
6. Write a program to print the length of a given list.
7. Write a program to find the maximum number in a given list.
8. Write a program to find the minimum number in a given list.
9. Write a program to print the sum of all the numbers in a given list.
10. Write a program to remove all the duplicates from a given list.
11. Write a program to remove the first and last element of a given list.
12. Write a program to reverse a given list.
13. Write a program to sort a given list in ascending order.
14. Write a program to sort a given list in descending order.
15. Write a program to check if a given list is empty or not.

## Exercises and Solution

1. Create a list of your favorite colors and print the list.

```
favorite_colors = ['blue', 'green', 'red', 'purple', 'orange']  
print(favorite_colors)
```

2. Create a list of numbers from 1 to 10 and print the list.

```
numbers = [1, 2, 3, 4, 5, 6, 7, 8, 9, 10]  
print(numbers)
```

3. Create a list of the first 5 even numbers and print the list.

```
even_numbers = [2, 4, 6, 8, 10]  
print(even_numbers)
```

4. Create a list of the first 5 odd numbers and print the list.

```
odd_numbers = [1, 3, 5, 7, 9]  
print(odd_numbers)
```

5. Create a list of your favorite movies and print the list.

```
favorite_movies = ['The Godfather', 'The Shawshank Redemption', 'The Dark Knight', 'Pulp Fiction',  
'The Matrix']
```

```
print(favorite_movies)
```

6. Write a program to print the length of a given list.

```
my_list = [1, 2, 3, 4, 5]
```

```
print(len(my_list))
```

7. Write a program to find the maximum number in a given list.

```
my_list = [3, 6, 2, 8, 1, 9]
```

```
print(max(my_list))
```

8. Write a program to find the minimum number in a given list.

```
my_list = [3, 6, 2, 8, 1, 9]
```

```
print(min(my_list))
```

9. Write a program to print the sum of all the numbers in a given list.

```
my_list = [1, 2, 3, 4, 5]
```

```
print(sum(my_list))
```

10. Write a program to remove all the duplicates from a given list.

```
my_list = [1, 2, 2, 3, 4, 4, 5, 5]
```

```
new_list = list(set(my_list))
```

```
print(new_list)
```

11. Write a program to remove the first and last element of a given list.

```
my_list = [1, 2, 3, 4, 5]
```

```
my_list = my_list[1:-1]
```

```
print(my_list)
```

12. Write a program to reverse a given list.

```
my_list = [1, 2, 3, 4, 5]
```

```
my_list.reverse()
```

```
print(my_list)
```

13. Write a program to sort a given list in ascending order.

```
my_list = [3, 6, 2, 8, 1, 9]
```

```
my_list.sort()
```

```
print(my_list)
```

14. Write a program to sort a given list in descending order.

```
my_list = [3, 6, 2, 8, 1, 9]
```

```
my_list.sort(reverse=True)
```

```
print(my_list)
```

15. Write a program to check if a given list is empty or not.

```
my_list = []
```

```
if not my_list:
```

```
    print("The list is empty")
```

```
else:
```

```
    print("The list is not empty")
```