

Exercise - 3

1. Write a Java program to find the minimum and maximum integer in an array.
2. Write a Java program to reverse the array in place.
3. Write a Java program to find the second largest integer in an array.
4. Write a Java program to sort a given array in ascending order.
5. Write a Java program to print the alternate integers in an array.
6. Write a Java program to add two matrices.
7. Write a Java program to multiply two matrices.
8. Write a Java program to find the transpose of a given matrix.
9. Write a Java program to find the trace of a given matrix.
10. Write a Java program to print the following patterns:

Pattern 1:

```
1
1 2
1 2 3
1 2 3 4
1 2 3 4 5
```

Pattern 2:

```
1
2 2
3 3 3
4 4 4 4
5 5 5 5 5
```