Project 1 Outputs:

```
(base) clarkes@LAPTOP-1W2BCY3:/mnt/c/Users/clarkes/Documents/mack/mscs/csc6013_algoritms_and_discrete_structures/week2_Algorithms_Asymptotic_Notations/project_2$ python3 project1.py

Enter a list of comma separated numbers
: 20, 21, 25, 28, 33, 34, 35, 36, 41, 42
Enter a number, any number
: 7

The array you entered has 4 numbers that are divisible by 7.

(base) clarkes@LAPTOP-1W2BCY3:/mnt/c/Users/clarkes/Documents/mack/mscs/csc6013_algoritms_and_discrete_structures/week2_Algorithms_Asymptotic_Notations/project_2$ python3 project1.py

Enter a list of comma separated numbers
: 18, 54, 76, 81, 36, 48, 99
Enter a number, any number
: 9

The array you entered has 5 numbers that are divisible by 9.

(base) clarkes@LAPTOP-1W2BCY3:/mnt/c/Users/clarkes/Documents/mack/mscs/csc6013_algoritms_and_discrete_structures/week2_Algorithms_Asymptotic_Notations/project_2$
```

Project 2 Outputs:

```
(base) clarkes@LAPTOP-1W2BCY3:/mnt/c/Users/clarkes/Documents/mack/mscs/csc6013_algoritms_and_discrete_structures/week2_Algorithms_Asymptotic_Notations/project_2$ python3 project2.py

Enter a list of comma separated numbers
: 50, 120, 250, 100, 20, 300, 200

The smallest gap in the array you entered is 20.

(base) clarkes@LAPTOP-1W2BCY3:/mnt/c/Users/clarkes/Documents/mack/mscs/csc6013_algoritms_and_discrete_structures/week2_Algorithms_Asymptotic_Notations/project_2$ python3 project2.py

Enter a list of comma separated numbers
: 12.4, 45.9, 8.1, 79.8, -13.64, 5.09

The smallest gap in the array you entered is 3.01.

(base) clarkes@LAPTOP-1W2BCY3:/mnt/c/Users/clarkes/Documents/mack/mscs/csc6013_algoritms_and_discrete_structures/week2_Algorithms_Asymptotic_Notations/project_2$
```

Project 3 Outputs:

```
(base) clarkes@LAPTOP-1W2BCY3:/mnt/c/Users/clarkes/Documents/mack/mscs/csc6013_algoritms_and_discrete_structures/week2_Algorithms_Asymptotic_Notations/project_2$ python3 project3.py
 The matrices product of matrices A:[[2, 7], [3, 5]] and matrices B:[[8, -4], [6, 6]] is: [[58, 34], [54, 18]]

(base) clarkes@LAPTOP-1W2BCY3:/mnt/c/Users/clarkes/Documents/mack/mscs/csc6013_algoritms_and_discrete_structures/week2_Algorithms_Asymptotic_Notations/project_2$ python3 project3.py
 The matrices product of matrices A:[[1, 0, 2], [3, -2, 5], [6, 2, -3]] and matrices B:[[0.3, 0.25, 0.1], [0.4, 0.8, 0.0], [-0.5, 0.75, 0.6]] is: [[-0.7, 1.75, 1.3], [-2.4, 2.9, 3.3], [4.1, 0.85, -1.2]]

(base) clarkes@LAPTOP-1W2BCY3:/mnt/c/Users/clarkes/Documents/mack/mscs/csc6013_algoritms_and_discrete_structures/week2_Algorithms_Asymptotic_Notations/project_2$
```