Activity No. <n> <title>	
Course Code: CPE 201L	**Program: CPE**
Course Title: Data structure and algorithm	**Date Performed:9/6/2025**
Section:2-A	**Date Submitted:9/6/2025**
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1.Objectives

- **Implement an array of even integers less than 50 but not less than 20 and do the following operations:**
  a) **Display the elements**
  b) **Find the maximum element**
  c) **Reverse the array**

2. Discussion

- **This Helps to understand how I can use array deeply**

3. Materials and Equipment

- **I used Google Collab on writing my code and used GitHub to pass my paper**

4. Procedure

- **I created creat_even_array so that if I want to change my array, I can change it in one place, it is the create and return function**
- **Then displaying the array**
- **Next, I input on how to get the maximum length function**
- **And the reverse function, I used [::-1] to reverse the array**
- **Next, I input the main controller of the code, this is where the main functions of display, maximum length and reverse lies in**
- **And lastly the main() to make my code work**

5. Output

```python
def create_even_array():
    return [20, 22, 26, 28, 30, 34, 38, 42, 46, 50]


def display_array(arr):
    print("Integers:", arr)


def get_array_length(arr):
    return len(arr)


def reverse_array(arr):
    return arr[::-1]


def main():

    even_numbers = create_even_array()

    # Display elements
    display_array(even_numbers)

    # Finding the maximum length
    length = get_array_length(even_numbers)
    print("Maximum length of the Integer: ", length)

    # Reverse the array
    reversed_arr = reverse_array(even_numbers)
    print("Reversed Integer: ", reversed_arr)

main()
```

```
Integers: [20, 22, 26, 28, 30, 34, 38, 42, 46, 50]
Maximum length of the Integer:  10
Reversed Integer:  [50, 46, 42, 38, 34, 30, 28, 26, 22, 20]
```

6. Conclusion

- **For this test making an array that uses functions is still quite hard for me, but thankfully I have some modules to turn to.**

Lab Activity Rubric

Criteria	Ratings						Pts
SO 7 PI 1 **Student Outcome 7.1** Acquire and apply new knowledge from outside sources. threshold: 4.8 pts	6 pts Excellent | Educational interests and pursuits exist and flourish outside classroom requirements,knowledge and/or experiences are pursued independently and applies knowledge learned into practice	5 pts Good | Educational interests and pursuits exist and flourish outside classroom requirements,knowledge and/or experiences are pursued independently	4 pts Satisfactory | Look beyond classroom requirements, showing interest in pursuing knowledge independently	3 pts Unsatisfactory | Begins to look beyond classroom requirements, showing interest in pursuing knowledge independently	2 pts Poor | Relies on classroom instruction only	1 pts Very Poor | No initiative or interest in acquiring new knowledge	6 pts
SO 7 PI 2 **Student Outcome 7.2** Learn independently threshold: 4.8 pts	6 pts Excellent | Completes an assigned task independently and practices continuous improvement	5 pts Good | Completes an assigned task without supervision or guidance	4 pts Satisfactory | Requires minimal guidance to complete an assigned task	3 pts Unsatisfactory | Requires detailed or step-by-step instructions to complete a task	2 pts Poor | Shows little interest to complete a task independently	1 pts Very Poor | No interest to complete a task independently	6 pts
SO 7 PI 3 **Student Outcome 7.3** Critical thinking in the broadest context of technological change threshold: 4.8 pts	6 pts Excellent | Synthesizes and integrates information from a variety of sources; formulates a clear and precise perspective; draws appropriate conclusions	5 pts Good | Evaluate information from a variety of sources; formulates a clear and precise perspective.	4 pts Satisfactory | Analyze information from a variety of sources; formulates a clear and precise perspective.	3 pts Unsatisfactory | Apply the gathered information to formulate the problem	2 pts Poor | Gather and summarized the information from a variety of sources but failed to formulate the problem	1 pts Very Poor | Gather information from a variety of sources	6 pts
SO 7 PI 4 **Student Outcome 7.4** Creativity and adaptability to new and emerging technologies threshold: 4.8 pts	6 pts Excellent | Ideas are combined in original and creative ways in line with the new and emerging technology trends to solve a problem or address an issue.	5 pts Good | Ideas are creative and adapt the new knowledge to solve a problem or address an issue	4 pts Satisfactory | Ideas are creative in solving a problem, or address an issue	3 pts Unsatisfactory | Shows some creative ways to solve the problem	2 pts Poor | Shows initiative and attempt to develop creative ideas to solve the problem	1 pts Very Poor | Ideas are copied or restated from the sources consulted	6 pts
							Total Points: 24