**QUIZE 1**

**A close up of a text

Description automatically generated**A screen shot of a computer code

Description automatically generated**PROBLEM 1A:**

**A close up of a website

Description automatically generatedA computer code with text

Description automatically generated  
PROBLEM 1B:**

**A number on a black background

Description automatically generated**

**PROBLEM 1C:**

**A screenshot of a computer code

Description automatically generatedA close up of a logo

Description automatically generated**

**  
  
  
  
  
  
  
  
  
A close up of a text

Description automatically generatedA screenshot of a computer program

Description automatically generatedPROBLEM 2:**

**A close up of a website

Description automatically generatedA screenshot of a computer program

Description automatically generated  
  
  
  
  
  
  
  
  
  
  
  
  
  
  
  
  
  
PROBLEM 3:**



**A close up of a computer screen

Description automatically generatedA black background with white text

Description automatically generatedA screenshot of a computer program

Description automatically generatedA screenshot of a computer code

Description automatically generatedA screenshot of a computer program

Description automatically generatedA close up of a website

Description automatically generatedA screenshot of a computer code

Description automatically generatedA screenshot of a computer code

Description automatically generatedPROBLEM 4:   
  
  
  
  
  
  
  
  
  
  
  
  
  
  
  
  
  
  
  
  
  
  
PROBLEM 5A:**

**A blue and white box with black text

Description automatically generatedA screenshot of a computer code

Description automatically generatedA screenshot of a computer code

Description automatically generatedPROBLEM 5B:**

**A black background with white text

Description automatically generatedA screenshot of a computer code

Description automatically generated**

**PROBLEM 6: Consider the linked list below. Make the list**

1. **A purple square with white text

   Description automatically generatedCircular Linked List**
2. A purple square with white text

   Description automatically generated**Doubly Linked List**

NULL

NULL

1. **PROBLEM 7:** **Write one advantage of linked list compared to array.**

* One advantage of a linked list compared to an array is that linked lists allow for efficient insertion and deletion of elements, as these operations can be performed in constant time (O(1)) if the position is known. In contrast, arrays require shifting elements, which can take linear time (O(n)). Additionally, linked lists do not require contiguous memory allocation, making them more flexible in memory management.