```
#include <stdio.h>
#include <stdlib.h>
struct Node {
   int data;
};
struct Node* createNode(int newData) {
   struct Node* newNode = (struct Node*)malloc(sizeof(struct Node));
   newNode->data = newData;
   newNode->next = NULL;
struct Node* insertAtFirst(struct Node* head, int newData) {
    struct Node* newNode = (struct Node*)malloc(sizeof(struct Node));
   newNode->data=newData;
   newNode->next = head;
   return newNode;
struct Node* insertAtPosition(struct Node* head, int newData, int
position)
    struct Node* newNode = (struct Node*)malloc(sizeof(struct Node));
    newNode->data=newData;
    if (position == 1) {
    for (int i = 1; i < position - 1 && temp != NULL; <math>i++) {
    if (temp == NULL) {
       printf("Invalid position\n");
```

```
newNode->next = temp->next;
   temp->next = newNode;
struct Node* insertAtEnd(struct Node* head, int newData)
   struct Node* newNode = (struct Node*)malloc(sizeof(struct Node));
   newNode->data=newData;
   newNode->next=NULL;
       return newNode;
    temp->next = newNode;
void displayList(struct Node* head) {
       printf("%d -> ", temp->data);
   printf("NULL\n");
void main() {
   struct Node* head = NULL;
   head = insertAtEnd(head, 1);
   head = insertAtEnd(head, 2);
   printf("Linked List: ");
   displayList(head);
```

```
head = insertAtFirst(head, 0);

printf("After insertion at first position: ");
    displayList(head);

head = insertAtPosition(head, 4, 4);

printf("After insertion at position 4: ");
    displayList(head);

head = insertAtEnd(head, 5);

printf("After insertion at end: ");
    displayList(head);
}
```

```
PROBLEMS DEBUG CONSOLE TERMINAL PORTS

PS C:\Users\kadab\OneDrive\Desktop\DS> gcc five.c

PS C:\Users\kadab\OneDrive\Desktop\DS> .\a.exe

Linked List: 1 -> 2 -> 3 -> NULL

After insertion at first position: 0 -> 1 -> 2 -> 3 -> NULL

After insertion at position 4: 0 -> 1 -> 2 -> 4 -> 3 -> NULL

After insertion at end: 0 -> 1 -> 2 -> 4 -> 3 -> NULL

PS C:\Users\kadab\OneDrive\Desktop\DS> []
```

