```
4 struct Node{
        int data;
       struct Node next;
 7 };
10 void linkedListTraversal(struct Node ptr)
11
       while(ptr!=NULL)
13
        printf("%d\t", ptr->data);
           ptr = ptr->next;
15
16
17 }
19 struct Node insertionAtFront(struct Node head,int data){
       struct Node * ptr=(struct Node*)mallor(sizeof(struct Node));
       ptr- data-data;
       ptr-next=head;
       head ptr;
       return head;
25 }
26
27 - struct Node* insertionAtEnd(struct Node* head,int data){
       struct Node* ptr=(struct Node*)malloc(sizeof(struct Node));
       ptr->data=data;
       struct Node* new=head;
       while(new->next!=NULL)
33 -
           new=new->next;
       new next ptr;
       ptr->next=NULL;
37
        return head;
39 }
40 struct Node* insertionAtIndex(struct Node* head,int data,int index)
41
       struct Node* ptr=(struct Node*)malloc(sizeof(struct Node));
       struct Node new2=head;
       int i=0;
       while(if=index-1)
47 -
```

```
Run O Debug
                         { } Beautify
main.c
 47 ~
             new2=new2->next;
  48
  49
             i++;
  50
 51
          ptr->data=data;
         ptr->next=new2->next;
  52
 53
         new2->next=ptr;
  54
          return head;
 55 }
  56
 57 void main()
  58 - {
 59
         struct Node head;
         struct Node* second;
 60
         struct Node third;
  61
         struct Node fourth;
  62
         struct Node fifth;
  63
         head=(struct Node*)malloc(sizeof(struct Node));
  64
         second=(struct Node*) maller(sizeof(struct Node));
  65
         third=(struct Node*) malloc(sizeof(struct Node));
 66
         fourth=(struct Node*)malloc(sizeof(struct Node));
 67
         fifth=(struct Node*)malloc(sizeof(struct Node));
 68
 69
         head > data=100;
  70
         head next second;
 71
 72
         second->data=99;
         second->next=third;
 73
         third->data=98;
  74
         third->next=fourth;
 75
         fourth-data=97;
  76
         fourth->next=fifth;
 77
 78
         fifth- data=96;
         fifth-next=NULL;
 79
 80
         printf("Original linked list:\n");
 81
         linkedListTraversal(head);
 82
         printf("\nLinked list after inserting element in front\n");
 83
         head=insertionAtFront(head,21);
 84
         linkedListTraversal(head);
 85
         printf("\nLinked list after inserting element in end\n");
         head=insertionAtEnd(head,22);
  87
         linkedListTraversal(head);
 88
              ("\nLinked list after inserting element at 3rd position\n");
  89
         head=insertionAtIndex(head, 23,3);
 90
         linkedListTraversal(head);
 91
 92 }
```

Original linked list: Linked list after inserting element in front Linked list after inserting element in end Linked list after inserting element at 3rd position

...Program finished with exit code 0
Press ENTER to exit console.

Q .3