Experiment No: 5

Code:

```
#include<stdio.h>
#include<stdlib.h>
struct node
  int data;
};
struct node *head;
void beginsert ();
void lastinsert ();
void display ();
void main()
  while(choice!=9)
      printf("\nMain Menu\n");
      printf("\nChoose one option from the following list\n");
      printf("\n1.Insert in beginning\n2.Insert at last\n3.Display\n4.Exit\n");
      printf("\nEnter your choice:\n");
           beginsert();
           case 2:
```

```
display();
         exit(0);
         printf("\nPlease enter valid choice");
void beginsert()
  struct node *ptr;
  int item;
  ptr=(struct node*) malloc(sizeof(struct node*));
  if(ptr==NULL)
  printf("\nOverflow");
     printf("\nEnter value\n");
     ptr->data=item;
     ptr->next=head;
     head=ptr;
     printf("\nNode inserted");
```

```
roid lastinsert()
  struct node*ptr,*temp;
  ptr=(struct node*)malloc(sizeof(struct node*));
  if(ptr==NULL)
    printf("\nOVERFLOW");
     printf("\nEnter Value:");
     ptr->data=item;
         ptr->next=NULL;
         head=ptr;
         printf("\nNode inserted");
         temp=head;
            temp=temp->next;
          temp->next=ptr;
          ptr->next=NULL;
          printf("\nNode inserted");
```

```
void display()
  ptr=head;
  if(ptr==NULL)
     while (ptr!=NULL)
         ptr=ptr->next;
```

Output:

```
1.Insert in beginning
2.Insert at last
3.Display
4.Exit
Main Menu
Choose one option from the following list
1.Insert in beginning
2.Insert at last
3.Display
4.Exit
                                                                                             Enter your choice:
                                                                                             Printing values...
                                                                                             Main Menu
                                                                                             Choose one option from the following list
                                                                                            1.Insert in beginning
2.Insert at last
3.Display
4.Exit
Node inserted
Main Menu
Choose one option from the following list
1.Insert in beginning
2.Insert at last
3.Display
4.Exit
                                                                                             Enter Value:6
                                                                                             Node inserted
Main Menu
                                                                                             Choose one option from the following list
                                                                                            1.Insert in beginning
2.Insert at last
3.Display
4.Exit
Node inserted
Main Menu
Choose one option from the following list
                                                                                             Enter your choice:
1.Insert in beginning
2.Insert at last
3.Display
4.Exit
                                                                                             Printing values...
```

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Date of Performance: 06/09/24

Date of Submission: 13/09/24