Experiment No: 5

Code:

```
#include<stdio.h>
#include<stdlib.h>
struct node
  int data;
  struct node *next;
struct node *head;
void beginsert ();
void lastinsert ();
void display ();
void main()
   int choice = 0;
  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");
       scanf("%d", &choice);
       switch (choice)
          case 1:
          break;
           case 2:
```

```
break;
           case 3:
           break;
           case 4:
           break;
           default:
          printf("\nPlease enter valid choice");
void beginsert()
   struct node *ptr;
   int item;
   ptr=(struct node*) malloc(sizeof(struct node*));
   if(ptr==NULL)
     printf("\nOverflow");
   else
       printf("\nEnter value\n");
       scanf("%d",&item);
      printf("\nNode inserted");
```

```
void lastinsert()
   struct node*ptr,*temp;
   int item;
   ptr=(struct node*)malloc(sizeof(struct node*));
   if(ptr==NULL)
     printf("\nOVERFLOW");
   else
      printf("\nEnter Value:");
      scanf("%d", &item);
      if(head==NULL)
          ptr->next=NULL;
          printf("\nNode inserted");
       else
           while(temp-> next!=NULL)
           ptr->next=NULL;
           printf("\nNode inserted");
```

```
void display()
  struct node*ptr;
  if(ptr==NULL)
   printf("Nothing to print");
  else
      printf("\nPrinting values...\n");
      while (ptr!=NULL)
         printf("%d\n",ptr->data);
```

Output:

```
Main Menu
Choose one option from the following list
1.Insert in beginning
2.Insert at last
3.Display
4.Exit
Enter your choice:
1
Enter value
4
Node inserted
Main Menu
Choose one option from the following list
1.Insert in beginning
2.Insert at last
3.Display
4.Exit
Enter your choice:
1
Enter value
5
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
5
Node inserted
Main Menu
Choose one option from the following list
1.Insert in beginning
2.Insert at last
3.Display
4.Exit
Enter your choice:
```

```
1.Insert in beginning
2.Insert at last
3.Display
4.Exit

Enter your choice:
3

Printing values...
5
4

Main Menu
Choose one option from the following list
1.Insert in beginning
2.Insert at last
3.Display
4.Exit

Enter your choice:
2

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

Enter your choice:
3

Printing values...
5
4
```

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