INSERT FIRST

```
     /****    Program to Insert First Node in a Linked List    ****/

#include <stdio.h>

void insert_first();
void display();

struct node
{
     int info;
     struct node *link;
} *start=NULL;

int item;

main()
{
      int ch;
      do
      {
          printf("\n\n\n1. Insert First\n2. Display\n3. Exit\n");
          printf("\nEnter your choice: ");
          scanf("%d", &ch);

          switch(ch)
          {
               case 1:
                    insert_first();
                    break;

               case 2:
                    display();
                    break;

               case 3:
                    exit(0);

               default:
                    printf("\n\nInvalid choice. Please try again.\n");
          }
      } while (1);
}
```

```
void insert_first()
{
     struct node *ptr;

     printf("\n\nEnter item: ");
     scanf("%d", &item);

     if(start == NULL)
     {
          start = (struct node *)malloc(sizeof(struct node));
          start->info = item;
          start->link = NULL;
     }
     else
     {
          ptr = start;
          start = (struct node *)malloc(sizeof(struct node));
          start->info = item;
          start->link = ptr;
     }

     printf("\nItem inserted: %d\n", item);
}

void display()
{
     struct node *ptr = start;
     int i=1;

     if (ptr == NULL)
          printf("\nLinklist is empty.\n");
     else
     {
        printf("\nSr. No.\t\tAddress\t\tInfo\t\tLink\n");
        while(ptr != NULL)
        {
                printf("\n%d.\t\t%d\t\t%d\t\t%d\n", i, ptr, ptr->info,
                                                        ptr->link);
                ptr = ptr->link;
                i++;
         }
     }
}
```