Write a C Program to implement various operations of Singly Linked List Stack

```
#include <stdio.h>
#include <stdlib.h>
#define TRUE 1
#define FALSE 0
struct node
{
  int data;
  struct node *next;
typedef struct node node;
node *top;
void initialize()
  top = NULL;
void push(int value)
  node *tmp;
tmp = malloc(sizeof(node));
tmp -> data = value;
tmp -> next = top;
  top = tmp;
int pop()
  node *tmp;
  int n;
tmp = top;
  n = tmp->data;
  top = top->next;
  free(tmp);
  return n;
int Top()
  return top->data;
int isempty()
  return top==NULL;
void display(node *head)
  if(head == NULL)
printf("NULL\n");
  }
  else
printf("%d\n", head -> data);
```

```
display(head->next);
  }
}
int main()
  initialize();
  push(10);
  push(20);
  push(30);
  push(40);
  push(50);
  push(60);
  push(70);
  push(80);
  push(90);
  push(100);
printf("The top is %d\n",Top());
printf("The top after pop is %d\n",Top());
  display(top);
  return 0;
}
```

OUTPUT

```
The top is 100
The top after pop is 90
90
80
80
40
30
20
10
NULL
...Program finished with exit code 0
Press ENTER to exit console
```