c-Program to implement stack using Arrays:

```
#include<stdio.h>
#include<stdlib.h>
#define STACK_SIZE 5
  int item;
  int stack[10];
  int toP=-1;
  void Push()
  {
    if(toP==STACK_SIZE-1)
    {
     Printf("\n STACK OVERFLOW\n");
      return;
    }
   toP=toP+1;
   stack[toP]=item;
  }
  int PoP()
  {
   if(toP==-1) return -1;
   return stack[toP--];
  }
  void disPlay()
  {
    int i;
   if(toP==-1)
   {
    Printf("\nSTACK UNDERFLOW\n");
     return;
   }
```

```
Printf("\nDISPLAYING CONTENTS OFSTACK\n");
 for(i=0;i<=toP;i++)
 {
  Printf("%d\n", stack[i]);
 }
}
 int main()
 {
  int Deleted_item;
  int choice;
  for(;;)
  {
   Printf("\n1:Push\n2:PoP\n3:display\n4:exit\n");
   Printf("Enter the choice\n");
   scanf("%d", &choice);
   switch(choice)
   {
    case 1: Printf("Enter the item to be inserted\n");
            Scanf("%d", &item);
            Push();
            break;

    case 2: Deleted_item=PoP();
            if(Deleted_item==-1)
            {
             Printf("STACK IS EMPTY\n");
            }
```

```
                else
                {
                 Printf("Item deleted is %d\n",Deleted_item);
                }
                break;

    case 3 : display();
             break;
    default : exit(0);
    return 0;
  }
}
```