```
#include<stdio.h>
int stack[100],choice,n,top,x,i;
void push(void);
void pop(void);
void display(void);
int main()
{
 //clrscr();
 top=-1;
 printf("\n Enter the size of
STACK[MAX=100]:");
  scanf("%d",&n);
 printf("\n\t STACK OPERATIONS USING
ARRAY");
 printf("\n\
 printf("\n\t 1.PUSH\n\t 2.POP\n\t
3.DISPLAY\n\t 4.EXIT");
 do
  {
   printf("\n Enter the Choice:");
    scanf("%d",&choice);
   switch(choice)
    {
     case 1:
     {
       push();
       break;
     }
```

```
case 2:
      {
       pop();
       break;
      case 3:
      {
       display();
       break;
      case 4:
      {
       printf("\n\t EXIT POINT ");
       break;
     default:
       printf ("\n\t Please Enter a Valid
Choice(1/2/3/4)");
      }
 while(choice!=4);
  return 0;
void push()
{
  if(top>=n-1)
```

```
{
   printf("\n\tSTACK is over flow");
  }
 else
  {
   printf(" Enter a value to be
pushed:");
    scanf("%d",&x);
   top++;
    stack[top]=x;
  }
void pop()
{
  if(top<=-1)
  {
   printf("\n\t Stack is under flow");
 else
  {
    printf("\n\t The popped elements is
%d",stack[top]);
   top--;
  }
void display()
{
  if(top>=0)
```

```
{
    printf("\n The elements in STACK \n");
    for(i=top; i>=0; i--)
        printf("\n%d",stack[i]);
    printf("\n Press Next Choice");
}
else
{
    printf("\n The STACK is empty");
}
```

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