```c
# include < stdio.h>
    int stack [100], choice, n, top, x, i;
    void push (void);
    void pop (void);
    void display (void);
    int main ()
{
    int top = -1;
    printf ("\n Enter the size of stack (MAX=100?:").
    scanf ("%d\n);
    printf ("\n\t Stack operation using array");
    printf ("\n\t Push \n\t 2. Pop \n\t 3. display 4. exit");

do
    {
        printf (" enter the choice");
        scanf ("%d", &choice);
        switch (choice)
        {
            case 1:
            {
                push ();
                break;
            }

            case 2:
            {
                pop ();
                break ();
            }

            case 3
            {
                display ();
            } break;
```

```c
            case 4 :
            {
                break;
            }
        .
        .
        default :
        {
            printf("\n\t Please enter a Valid choice");
        }
    while (choice != 4);
    return 0;

void push()
{
    if (top >= n-1)
    {
        printf("\n Stack Overflow");
    }

    else
    {
        printf(" enter a value to be pushed :");
        scanf("%d", &x);
        top++;
        stack[top] = x;
    }
}

void pop()
{
```

```c
if (top == -1)
{
    printf("Stack Underflow");
}

else
{
    printf ("\n\t The popped ele is %d", stack[top]);
    top--;
}
}

void display()
{
    if (top >= 0)
    {
        printf (" Elements are");

        for (i = top; i >= 0; i--) {
            printf ("\n %d ", stack[i]);
        }
    }

    else
    {
        printf(" Stack is empty");
    }
}
```