```
#include <stdio.h>
int stack[100],i,j,choice=0,n,top=-1;
void push();
void pop();
void show();
int main()
   printf("Enter the number of elements in the stack ");
   scanf("%d",&n);
   printf("*******Stack operations using array*******");
printf("\n-----\n");
   while(choice != 4)
       printf("Chose one from the below options...\n");
       printf("\n1.Push\n2.Pop\n3.Show\n4.Exit");
       printf("\n Enter your choice \n");
       scanf("%d",&choice);
       switch(choice)
           case 1:
               push();
              break;
           case 2:
               pop();
              break;
           case 3:
               show();
              break;
           case 4:
               printf("Exiting....");
              break;
           default:
               printf("Please Enter valid choice ");
       };
   return 0;
```

```
void push ()
   int val;
   if (top == n)
   printf("\n Overflow");
   else
       printf("Enter the value?");
       scanf("%d",&val);
       top = top +1;
       stack[top] = val;
void pop ()
   if(top == -1)
   printf("Underflow");
   else
   top = top -1;
void show()
   printf("The Stack is:\n");
   for (i=top;i>=0;i--)
       printf("%d\n",stack[i]);
   if(top == -1)
       printf("Stack is empty");
```