```
#include <stdio.h>
#include <stdlib.h>
#define SIZE 4
int top = -1, inp_array[SIZE];
void push();
void pop();
void show();
int main()
{
  int choice;
  while (1)
    printf("\nPerform operations on the stack:");
    printf("\n1.Push the element\n2.Pop the element\n3.Show\n4.End");
    printf("\n\nEnter the choice: ");
    scanf("%d", &choice);
    switch (choice)
    case 1:
      push();
      break;
    case 2:
      pop();
      break;
    case 3:
      show();
      break;
    case 4:
      exit(0);
    default:
      printf("\nInvalid choice!!");
    }
  }
void push()
  int x;
  if (top == SIZE - 1)
```

```
{
    printf("\nOverflow!!");
  }
  else
  {
    printf("\nEnter the element to be added onto the stack: ");
    scanf("%d", &x);
    top = top + 1;
    inp_array[top] = x;
  }
}
void pop()
  if (top == -1)
    printf("\nUnderflow!!");
  }
  else
    printf("\nPopped element: %d", inp_array[top]);
    top = top - 1;
  }
}
void show()
  if (top == -1)
    printf("\nUnderflow!!");
  }
  else
  {
    printf("\nElements present in the stack: \n");
    for (int i = top; i >= 0; --i)
      printf("%d\n", inp_array[i]);
  }
}
```