## **PROGRAM**

```
#include<stdio.h>
#include<conio.h>
#define SIZE 10
void push(int);
void pop();
void display();
int stack[SIZE], top = -1;
void main()
{
 int value, choice;
 clrscr();
 while(1){
   printf("\n\n***** MENU *****\n");
   printf("1. Push\n2. Pop\n3. Display\n4. Exit");
   printf("\nEnter your choice: ");
   scanf("%d",&choice);
   switch(choice){
   case 1: printf("Enter the value to be insert: ");
         scanf("%d",&value);
         push(value);
         break;
   case 2: pop();
         break;
   case 3: display();
         break;
```

```
case 4: exit(0);
   default: printf("\nWrong selection!!! Try again!!!");
   }
 }
}
void push(int value){
 if(top == SIZE-1)
   printf("\nStack is Full!!! Insertion is not possible!!!");
 else{
   top++;
   stack[top] = value;
   printf("\nInsertion success!!!");
 }
}
void pop(){
 if(top == -1)
   printf("\nStack is Empty!!! Deletion is not possible!!!");
 else{
   printf("\nDeleted : %d", stack[top]);
   top--;
 }
void display(){
 if(top == -1)
   printf("\nStack is Empty!!!");
```

```
else{
  int i;
  printf("\nStack elements are:\n");
  for(i=top; i>=0; i--)
  printf("%d\n",stack[i]);
}
```

## **OUTPUT:**

```
Turbo C++ IDE
3. Display
4. Exit
Enter your choice: 1
Enter the value to be insert: 20
Insertion success!!!
***** MENU ****
1. Push
2. Pop
3. Display
4. Exit
Enter your choice: 3
Stack elements are:
20
10
**** MENU ****
1. Push
2. Pop
3. Display
4. Exit
Enter your choice:
```