## STACK PROGRAM

```
#include <stdio.h>
#define SIZE 10
void push(int);
void pop();
void display();
void operation();
int stack[SIZE],top=-1;
int main()
{
        printf("*****operation****** \\ \n1.push \\ \n2.pop \\ \n3.display \\ \n4.exit");
  operation();
  return 0;}
void operation()
{
  int choice=0,value;
        while(choice<=4)
        {
        printf("\nenter your choice :");
        scanf("%d",&choice);
        switch(choice)
        {
               case 1:
                         printf("enter a number to be inserted:");
                         scanf("%d",&value);
                         push(value);
                         break;
          case 2:
                pop();
```

```
break;
          case 3:
                display();
                break;
          case 4:
                exit(0);
          default:
                printf("\nWrong selection!!!Try again !!!");
                operation();
        }
}
}
void push(int value)
{
        if(top==SIZE-1)
         printf("stack is overflow");
        else
        {
                top++;
                stack[top]=value;
                printf("insertion is successfully completed");
        }
}
void pop()
{
        if(top==-1)
          printf("stack is underflow");
        else
        {
```