```
NAME- RONAK SEN , COLLEGE ID-20CS87
#include<stdio.h>
Int stack[100],choice,n,top,x,I;
Int main()
{
  //clrscr();
  Top=-1;
  Printf("\n Enter the size of STACK[MAX=100]:");
  Scanf("%d",&n);
  Printf("\n\t-----");
  Printf("\n\t 1.PUSH\n\t 2.POP\n\t 3.DISPLAY\n\t ");
  Do
  {
    Printf("\n Enter the Choice:");
    Scanf("%d", &choice);
    Switch(choice)
    {
      Case 1:
        Push();
        Break;
      }
      Case 2:
      {
        Pop();
        Break;
      }
      Case 3:
```

```
{
        Display();
        Break;
      }
      Default:
      {
        Printf ("\n\t Please Enter a Valid Choice(1/2/3/4)");
      }
   }
  }
  While(choice!=4);
  Return 0;
}
Void push()
 If(top>=n-1)
  {
    Printf("\n\tSTACK is over flow");
  }
  Else
  {
    Printf(" Enter a value to be pushed:");
    Scanf("%d",&x);
    Top++;
    Stack[top]=x;
 }
}
```

```
Void pop()
{
  If(top<=-1)
  {
    Printf("\n\t Stack is under flow");
  }
  Else
  {
    Printf("\n\t The popped elements is %d",stack[top]);
    Top--;
  }
}
Void display()
{
  If(top>=0)
    Printf("\n The elements in STACK \n");
    For(i=top; i>=0; i--)
       Printf("\n%d",stack[i]);
    Printf("\n Press Next Choice");
  }
  Else
  {
    Printf("\n The STACK is empty");
  }
}
```

Output:

```
I.PUSH
2.POP
3.DISPLAY

Enter the Choice:1
Enter a value to be pushed:34

Enter the Choice:1
Enter a value to be pushed:90
```