**Experiment - 4**

**AIM: Write a program on various operation on stack.**

1. #include <stdio.h>
2. #include<iostream>
3. using namespace std;
4. const int size=10;
5. int push(int s[], int &t, int e)
6. {if(t==size-1)
7. cout<<"full";
8. else
9. {t=t-1;
10. s[t]=e;
11. }
12. return 0;
13. }
14. int pop(int s[], int&t)
15. { if(t==-1)
16. cout<<("stack is empty" );
17. else
18. { int e=s[t];
19. t=t-1;
20. cout<<"Deleted value is "<<e;
21. }
22. return 0;
23. }
24. int display(int s[], int t)
25. {int i;
26. cout<<"Elements are ";
27. for(i=t;i>=0;i--)
28. cout<<s[i];
29. return 0;
30. }
31. int main()
32. {
33. int choice, stack[size], e,top=-1;
34. char ch='y';
35. cout<<"Enter stack elements\n";
36. for(int i=0;i<10;i++)
37. cin>>stack[i];
38. while(ch='y' )
39. {
40. cout<<"\n1.push\n"<<"2.pop\n"<<"3.diaplay\n"<<"4.exit\n"<<"Enter your choice\n";
41. cin>>choice;
42. switch(choice)\
43. {case 1:cout<<"Enter element for insertion\n";
44. cin>>e;
45. push(stack, top, e);
46. break;
47. case 2: pop(stack, top);
48. cout<<"deleted value is\n"<<e;
49. break;
50. case 3: display(stack, top);
51. break;
52. case 4:exit(0);
53. default: cout<<"Enter valid choice\n";
54. }
55. cout<<"\nDo you want to continue press y\n";
56. cin>>ch;
57. }}

**Output :-**

