OUTPUT:

```
Enter operation to be performed: 1-push, 2-pop, 3-peek, 4-display, 5-exit
Enter data:1
Enter operation to be performed: 1-push, 2-pop, 3-peek, 4-display, 5-exit
Enter data:2
Enter operation to be performed: 1-push, 2-pop, 3-peek, 4-display, 5-exit
Enter operation to be performed: 1-push, 2-pop, 3-peek, 4-display, 5-exit
Enter operation to be performed: 1-push, 2-pop, 3-peek, 4-display, 5-exit
Enter data:5
Enter operation to be performed: 1-push, 2-pop, 3-peek, 4-display, 5-exit
Enter data:6
Stack Overflow
Enter operation to be performed: 1-push, 2-pop, 3-peek, 4-display, 5-exit
Top=5
Enter operation to be performed: 1-push, 2-pop, 3-peek, 4-display, 5-exit
Element deleted is 5
Enter operation to be performed: 1-push, 2-pop, 3-peek, 4-display, 5-exit
Element deleted is 4
Enter operation to be performed: 1-push, 2-pop, 3-peek, 4-display, 5-exit
Element deleted is 3
Enter operation to be performed: 1-push, 2-pop, 3-peek, 4-display, 5-exit
Element deleted is 2
Enter operation to be performed: 1-push, 2-pop, 3-peek, 4-display, 5-exit
Element deleted is 1
Enter operation to be performed: 1-push, 2-pop, 3-peek, 4-display, 5-exit
Enter operation to be performed: 1-push, 2-pop, 3-peek, 4-display, 5-exit
Enter data:21
Enter operation to be performed: 1-push, 2-pop, 3-peek, 4-display, 5-exit
Enter operation to be performed: 1-push, 2-pop, 3-peek, 4-display, 5-exit
Enter data:73
Enter operation to be performed: 1-push, 2-pop, 3-peek, 4-display, 5-exit
```

```
Top=5
Enter operation to be performed: 1-push, 2-pop, 3-peek, 4-display, 5-exit
Element deleted is 5
Enter operation to be performed: 1-push, 2-pop, 3-peek, 4-display, 5-exit
Element deleted is 4
Enter operation to be performed: 1-push, 2-pop, 3-peek, 4-display, 5-exit
2
Element deleted is 3
Enter operation to be performed: 1-push, 2-pop, 3-peek, 4-display, 5-exit
Element deleted is 2
Enter operation to be performed: 1-push, 2-pop, 3-peek, 4-display, 5-exit
Element deleted is 1
Enter operation to be performed: 1-push, 2-pop, 3-peek, 4-display, 5-exit
Stack Underflow
Enter operation to be performed: 1-push, 2-pop, 3-peek, 4-display, 5-exit
Enter operation to be performed: 1-push, 2-pop, 3-peek, 4-display, 5-exit
Enter data:45
Enter operation to be performed: 1-push, 2-pop, 3-peek, 4-display, 5-exit
Enter data:73
Enter operation to be performed: 1-push, 2-pop, 3-peek, 4-display, 5-exit
21
45
Enter operation to be performed: 1-push, 2-pop, 3-peek, 4-display, 5-exit
Invalid choice entered
Enter operation to be performed: 1-push, 2-pop, 3-peek, 4-display, 5-exit
PS C:\Users\BMSCECSE\Desktop\1BF24CS195\output> [
```

OBSERVATION:

```
Stack Program
# define NS
 int stock [N];
  int top = -1;
  void push ()
    int x;
   printf("Enter data:");
   scanf(" 7.d", 4x);
    4 (top == N-1)
     printf ("Stock overylow");
    elsi
      bobtti
     stock (top) = x;
  void pop ()
    int Item;
      printf ("stack underflow");
     elss
      item = stack [tob] i
      prints ("stem deleted in 7.d", item);
```

```
void kuki)
    printf("stack Unduylaw");
  ela
    printfl" Top = %d", Stack Ctop]);
int main ()
   int chair; _ while (choir !=5) (
   printf ("Goter operation to be performed"
          1- push()
          2- pop()
          3 - pauk 1)
          4 - Display()
          s- exit");
  Scanf ("1.d", Echoice)
  Switch (choia) {
      cost 1 : push ();
       break.
       CON 3. POP()!
       break;
       case 3. pul? (),
       break;
       Casi 4: Display();
       break;
        cases: break;
       cost default : printf (" Invalid Chair" );
```

void display ()

for (int i = 0; i < bob; i+)

print ("% d") stack [i]);

[aint]

[aint]

[aint]