```
main.c X
          #include<stdio.h>
  193
  194
          #include<stdlib.h>
  195
          #define stack size 5
  196
         int top=-1;
  197
         int s[10];
  198
         int item;
  199
         void push()
  200
  201
              if (top== stack_size-1) {
                  printf("Stack overflow\n");
  202
  203
                  return;
  204
  205
              top=top+1;
  206
              s[top]=item;
  207
  208
         int pop()
  209
  210
              if(top==-1){
  211
                  return -1;;
  212
  213
              return s[top--];
  214
  215
         void display()
  216
  217
             int i;
  218
             if(top==-1){
  219
               printf("Stack is empty\n");
  220
  221
             printf("\nContents of Stack are : \n");
  222
             for(int i=top;i>=0;i--) {
  223
               printf("%d\n",s[i]);
  224
  225
```

```
226
       void main()
227
228
          int item deleted, choice;
229
          for(;;){
230
               printf("\n1:Push\n2:Pop\n3:Display\n4:Exit\n");
231
               printf("Enter choice : ");
232
               scanf ("%d", &choice);
233
               switch (choice) {
                    case 1: printf("Enter item\n");
234
235
                        scanf("%d", &item);
236
                        push();
237
                        break;
238
239
                    case 2: item deleted=pop();
                        if(item deleted == -1) {
240
241
                            printf("Stack underflow, so no maore items can be deleted\n");
242
243
                        else{
244
                            printf("Item deleted: %d\n", item deleted);
245
246
                        break;
247
                    case 3: display();
248
249
                        break;
250
251
                   case 4: exit(0);
252
253
                    default: printf("Enter proper instructional value\n");
254
                        break;
255
256
257
           getch();
258
```

main.c X

(2)Users\Shreshtha Aggarwal\Desktop\1stpm\bin\Debug\1stpm.cxe 1:Push 2:Pop 3:Display 4:Exit Enter choice : 1 Enter item 20 1:Push 2:Pop 3:Display 4:Exit Enter choice : 1 Enter item 24 1:Push 2:Pop 3:Display 4:Exit Enter choice : 1 Enter item 25 1:Push 2:Pop 3:Display 4:Exit Enter choice : 1 Enter item 26 1:Push 2:Pop 3:Display 4:Exit Enter choice : 1 Enter item 27 1:Push 2:Pop 3:Display 4:Exit Enter choice : 1 Enter item 28 Stack overflow

```
"C:\Users\Shreshtha Aggarwal\Desktop\1stpro\bin\Debug\1stpro.exe"
1:Push
2:Pop
3:Display
4:Exit
Enter choice : 3
Contents of Stack are :
27
23
1:Push
2:Pop
3:Display
4:Exit
Enter choice : 2
Item deleted: 27
1:Push
2:Pop
3:Display
4:Exit
Enter choice : 2
Item deleted: 26
1:Push
2:Pop
3:Display
4:Exit
Enter choice : 2
Item deleted: 25
1:Push
2:Pop
3:Display
4:Exit
Enter choice : 2
Item deleted: 24
1:Push
2:Pop
3:Display
4:Exit
Enter choice : 2
Item deleted: 23
```

"C:\Users\Shreshtha Aggarwal\Desktop\1stpro\bin\Debug\1stpro.exe"