```
//Program for Stack implementation through Array
#include <stdio.h>
//#include <ctype.h>
#define MAXSIZE 5
int stack[MAXSIZE];
int top=0;
             //index pointing to the top of stack
    void main()
         void push();
         void pop();
         void display();
         int will=1,i;
         clrscr();
         while(1)
              printf("\n\nMAIN MENU:\n\n1.PUSH\n2.POP\n3.EXIT\n\nENTER YOUR CHOICE:
");
              scanf("%d",&will);
              switch(will)
                   case 1:
                   push();
                   display();
                   break;
                   case 2:
                   pop();
                   display();
                 break;
                 case 3:
                 exit(0);
                 break:
                   default:
                   printf("Invalid Choice . ");
               }
          } //end of outer while
     }
               //end of main
    void push()
```

```
int num;
    if(top>=MAXSIZE)
     {
         printf("\nSTACK FULL");
         return;
     }
    else
          if(top<0)
     {
          top=0;
         printf("\n\nENTER THE STACK ELEMENT : ");
         scanf("%d",&num);
         stack[top++]=num;
     }
void pop()
         if(top > = 0)
         top--;
}
void display()
     int i;
    if(top \le 0)
    printf("\n\nSTACK EMPTY");
     else
    for(i=top-1;i>=0;i--)
      printf("\n\n%d ",stack[i]);
      if(i==(top-1))
      printf("---->TOP");
}
```

-->>SAMPLE INPUT OUTPUT:

MAIN MENU:

1.PUSH

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MAIN MENU:

STACK EMPTY