DISHA B.
1BM19CS050
25/09/2020.

```
#include<stdio.h>
#define size 3
int top=-1;


int main(int argc, char **argv)
{
    int stack[size];
    int choice, element;
    char ch;
    do
    {
      printf("Enter the choice \n");
      printf("1. Push \n");
      printf("2. Pop \n");
      printf("3. Display \n");
      scanf("%d", &choice);
      switch(choice)
      {
        case 1: printf("Enter the element which is
                to be pushed \n");
                scanf("%d", &element);
                push(stack, element);
                break;
        case 2: element = pop(stack);
                if(element != -1)
                  printf("Stack underflow");
                else
                  printf("popid element is %d \n",
                          element);
                break;
```

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```
        case 3: display(stack);
                break;
        default: printf("Invalid choice");
    }
    printf("Do you want to continue:\n");
    fflush(stdin);
    scanf("%c", &ch);
    } while(ch=='y'||ch=='Y');
    return 0;
}

void push(int stack[], int ele)
{
    if(top==size-1)
    {
        printf("Stack overflow");
    }
    else
    {
        top++;
        stack[top]=ele;
    }
}
int pop(int stack[])
{
    int popele;
    if(top==-1)
        return -1;
    else
    {
        popele=stack[top];
        top--;
```

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25/09/2020

```
        return (popit);
    }
}
void display(int stack[])
{
    int i;
    printf("The stack elements\n");
    for (i = top; i>=0; i--)
    {
        printf("%d\t", stack[i]);
    }
}
```