Wk 2

22/09/2020

(1)

```
#include <stdio.h>
#include <Process.h>
#include <conio.h>
#define STACK_SIZE 5
int j = -1;
int S[10];
int n;
void push (int n, int S[], int j)
{
  if (j == STACK_SIZE - 1)
  {printf ("Stack overflow\n");
   return;
  }
   j = j + 1
   S[j] = n;
}

int pop (int S[], int j)
{
  if printf ("Stack underflow\n");
   return;
{
   j = j + 1;
   S[j] = n;
```

```
int pop(int s[], int j)
{
    if (j == -1)
    return -1;
    return s[j--];
}

void display(int s[], int j)
{ int i;
    if (j == -1)
    {printf("stack is empty\n");
    return;
    }
printf("contents of the stack\n");
for(i=0; i<=j; i++)
{printf("%d\n", s[i]);
}
}

void main()
{
```

```
int item_deleted;
int ~~choice~~ z;
clrscr();
for(;;)
{
printf("\n1: push\n2: pop\n3:
        display\n4: exit\n");
printf("\n enter the ~~choice~~ z\n");
scanf("%d", &~~choice~~ z);
switch(z)
{
case 1:
    printf("enter the item to be inserted\n")
    scanf("%d", &n);
    push(n, s[], j);
    break;
case 2:
    item_deleted = pop(s[], j);
if(item_deleted == -1)
    printf("stack is empty\n");
else
printf("item deleted is %d \n",
        item_deleted);
    break;
```

```
case 3:
    display(5[], 5)
    break;
default:
    exit(0);
}
}
getch();
}
```