1BM19CS148
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LAB PROGRAM I:-

```
#include<stdio.h>
#include<conio.h>

#define STACK_SIZE 5
int top=-1;
int s[10];
int item;
void push()
{
  if(top==STACK_SIZE-1)
  {
    printf("Stack overflow");
  }
top=top+1
  s[top]=item;
}
int pop()
  {
    if(top==-1) return -1;
    return s[top];
  }
void display()
  {
    int i;
    if(top==-1)
    {  printf("Stack is empty");
       return;
    }
```

```
printf("content of the stack");
for(i=top; i>=0; --i)
  {
    printf("%d", s[i]);
  }
}
int main()
{
 int item_deleted;
 int choice;
 for(;;)
 {
   printf("\n 1.push \n 2.pop \n
           3.display \n 4.exit");
   printf("Enter the choice");
   scanf("%d", &choice);
   switch(choice)
   {
    case 1:
      printf("Enter the item to be
                added");
      scanf("%d", &item);
      push();
      break;

    case 2:
      item_deleted = pop();
      if(item_deleted == -1)
      printf("Stack is empty");
```

```
        else
        printf("Item deleted is
                %d \n", item_deleted
    case break;
    case 3: display();
            break;
    default: exit(0);
    }
  }
return 0;
}
```