

DAY-6 ASSIGNMENT | 30th December, 2020

1.Problem Statement:

Write a function to find the maximum element in the stack.

Function:

```
void push()
{
    int item;
    scanf("%d",&item);
    st.top++;
    st.data[st.top]=item;
    if(max<st.data[st.top])
        max=st.data[st.top];
}

void pop()
{
    int i;
    if(max == st.data[st.top])
        max=0;
    st.top--;
    for(i=st.top;i>=0;i--)
        if(max<st.data[i])
            max=st.data[i];
}
```

2.Problem Statement:

Write a function to find the minimum element in the stack.

Function:

```
int push(int element , int *top , int *stack)
{
    *top = *top + 1;
    stack[*top] = element;
}

int pop(int *stack , int *top)
{
    int element;
    if(*top > -1)
    {
        element = stack[*top];
        *top = *top - 1;
        return element;
    }
    else
```

```
{  
    printf("\n== STACK EMPTY == \n");  
    return -99999; // means nothing is popped  
}  
}
```