

LAPORAN TUGAS

MATA KULIAH ALGORITMA DAN STRUKTUR DATA

Dosen Pengampu : Triana Fatmawati, S.T, M.T

PERTEMUAN - 8 - Stack



Nama : M. Zidna Billah Faza
NIM : 2341760030
Prodi : D-IV Sistem Informasi Bisnis

JURUSAN TEKNOLOGI INFORMASI
POLITEKNIK NEGERI MALANG

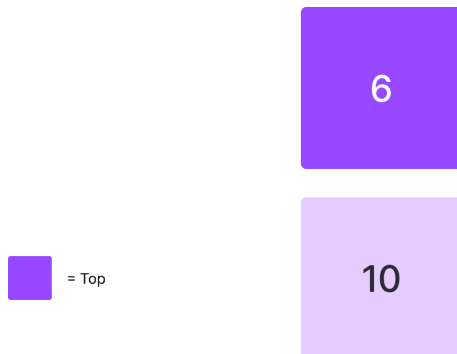
2024

Latihan 1

1) Push(10): Stack = [10]



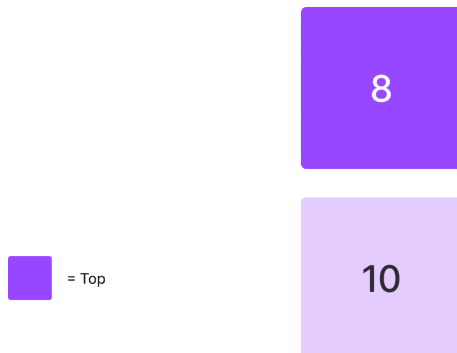
2) Push(6): Stack = [10, 6]



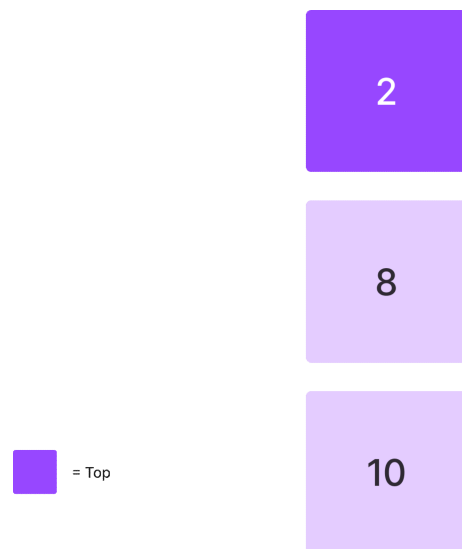
3) Pop(): Menghapus 6. Stack = [10]



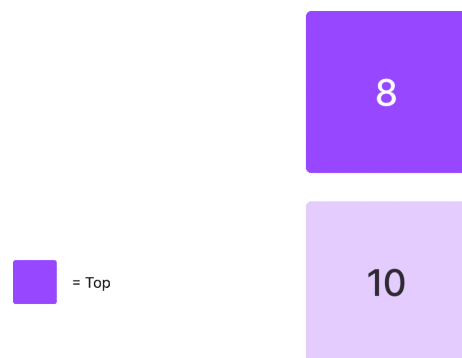
4) Push(8): Stack = [10, 8]



5) Push(2): Stack = [10, 8, 2]



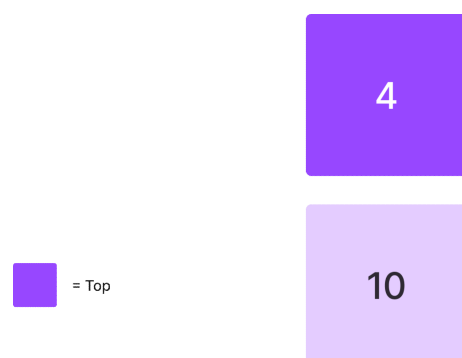
6) Pop(): Menghapus 2. Stack = [10, 8]



7) Pop(): Menghapus 8. Stack = [10]



8) Push(4): Stack = [10, 4]



Nilai Top setelah langkah 8 adalah 4

Latihan 2

a) $x + y / z - w$

Ekspresi postfix: $xyz/+w-$

b) $28 / 2 \% 7 + 12$

Ekspresi postfix: $282/7\%12+$

c) $4 * (7 - 4 + 1) ^ 3$

Ekspresi postfix: $74-1+3^*$