DLD lab-2

TASK 1
Truth table

A B C	AB	B+C	BC	BC(B+C)	AB+BC(B+C)
0 0 0	0	0	0	0	0
0 0 1	0	1	0	0	0
0 1 0	0	1	0	0	0
0 1 1	0	1	1	1	1
1 0 0	0	0	0	0	0
1 0 1	0	1	0	0	0
1 1 0	1	1	0	0	1
1 1 1	1	1	1	1	1

Boolean Expression
of $AB + BC(B+C)$

$\Rightarrow AB + BC.B + BC.C$

$\Rightarrow AB + BC + BC$

$\Rightarrow \boxed{AB + BC}$ ✓

(or)

$\boxed{B(A+C)}$ ✓

R. W

$B.B = B$

$C.C = C$

$BC + BC = BC$