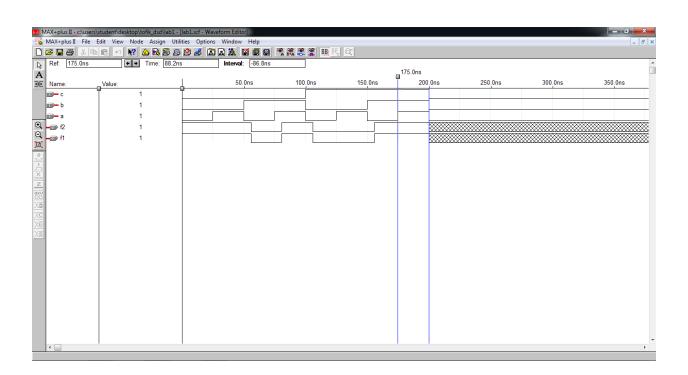
Week1 lab1

PROGRAM 1

```
module lab1(a,b,c,f1,f2); input a,b,c; output f1; output f2; assign f1=(a\&-c)|(b\&c)|(-b\&-c); assign f2=(a|-b|c)\&(a|b|-c)\&(-a|b|-c); endmodule
```



```
Lab1 program2_1 :

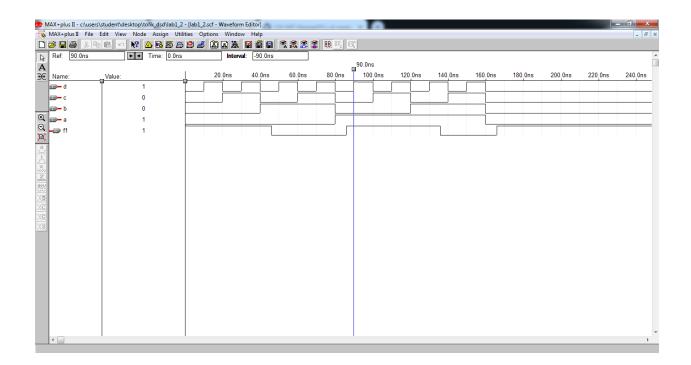
module lab1_2(a, b, c, d, f1);

input a, b, c, d;

output f1;

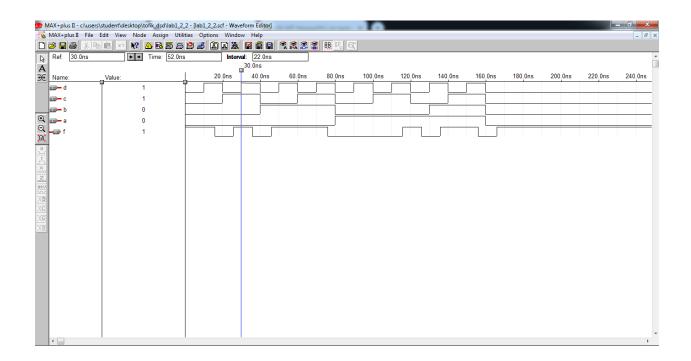
assign f1 = (~b & d) | (~b & c) | (a & ~c & ~d)|(~a&~b);

endmodule
```



```
LAB1 PROGRAM_2_2 module lab1_2_2(a, b, c, d, f); input a, b, c, d; output f; assign f = (\sim b| \sim c|\sim d) \ \&(\sim a|b|c) \ \&(\sim a|b|\ d) \&(a|b|\sim d);
```

endmodule



PROGRAM_3:

```
module exercise3(a,b,c,d,f); input a,b,c,d; output f; assign f = \sim (\sim (a\&a)\&b)\&(\sim (\sim (c\&c)\&d))); endmodule
```

