```
1 ----Shubham Prakash
 2 -----EC - B
 3 -----Roll: 36
4 ----Reg. no: 20319084
 5 ----Full Adder (Dataflow)
 6
 7
8 library ieee;
9 use ieee.std_logic_1164.all;
10
11 entity fa is
      port (
12
          a: in std_logic;
13
14
          b: in std_logic;
15
         c: in std_logic;
16
          sum: out std logic;
           cout: out std logic
17
18
       );
19 end fa;
20
21 architecture dflArch1 of fa is
22
       begin
           sum<= (a xor b) xor c;</pre>
23
           cout<= (a and b) or (b and c) or (c and a);</pre>
24
25 end dflArch1;
```

localhost:53275