|     | ARYAN RAD  LAB SECTION: 11  10: 2649 54748                                |
|-----|---|
|     | HOMEWORK 3  |
| P1. | A. assign F = (A&B)   |
|     | B. assign F= (A B)  |
|     | c. assign F = (A B) & (~A ~B)   |
|     | D. assign F= (~A ~B ~C) (~A&(~B ~C))  D. assign F= (~(A&B&C)) (~A&~(B&C)) |
| Ρ2. | D. assign F= (~(A&BRC)) / (~A&~(B&C))  A. Behavioral Behavioral Verilog   |
|     | B. Standwal Verilog   |
| P3. | A. module QI(f, a, b, c);   |
|     | input a, b, C;  |
|     | not (k, a);   |
|     | hot (g, 6);   |
|     | or (i, h, c);   |
|     | and (j, k, c);  |
|     | and (f, i, l);  |
|     | endmodule   |
|     |   |

|     | _/_/  |   |
|-----|---|---|
| P4. | B. module Q1(f, a, 6, c);                                     |   |
| 2   | input a,b,c;  |   |
| 3   | output f;   |   |
| 2   | reg f;  |   |
| 2   | A stage 1 th lee 2 miles a second                             |   |
| 2   | always @ ( a or b or c)                                       |   |
| 3   | ű ( a = = 0)  |   |
| 3   | f = 6+ c;   |   |
| 2   | elx VIII I I I I I I I I I I I I I I I I I                    |   |
| -   | f=O;  |   |
| •   | e testion   |   |
| •   | Indhodule   |   |
| P4. | A. WXY + WXY + WXY  |   |
|     | = WY(x+x) + wxy + wxy (Distributive)                          |   |
| )   | = WY + WXY + WXY (Complement)                                 | - |
| )   | € WY + WX (Similarly with 9)                                  |   |
|     | B. module P4 (w, x, y, z);                                    |   |
| )   | imput w, x, y;  |   |
|     | output z;   |   |
|     | 1 - 3 - 3 - 4 - 5 - 4 - 5 - A - A - A - A - A - A - A - A - A |   |
|     | net (k, w);   |   |
|     | and ( g, k, y);   |   |
|     | and (h, w, x);  |   |
|     | on (Z, g, h);   |   |
|     | 5 (2, 3, 5/)  |   |
|     | Indimodule  |   |
|     |   |   |
|     |   |   |





