- 1. Solve 2x y + z = 1,4x 2y + 2z = 2,2x + 3x + y = -1
- 2. Determine the values of a & b for which the system of equation x + y + az = 2b, x + 3y + (2 + 2a)z = 7b, 3x + y + (3 + 3a)z = 11b will have(i) unique non trivial solution (ii) trivial solution (iii) no solution (iv) many solution.
- 3. Find the value of a for which elimination breaks down, temporarily or permanently, in au + v = 1, 4u + av = 2.
- 4. Test the consistency of the system x + z = 1, x + y + z = 2, x y + z = 1. What if the right hand side is 1,2,0?
- 5. Check the consistency / Inconsistency of the system x 2y 3z = 0, y + z = -8, -x + y + 2z = 3