1. Write a function to define a TRIANGULAR MF. Create a fuzzy set “Young” in the universe of discourse “Age” using a triangular MF with parameters [10, 50, 80].
2. Write a function to define a trapezoidal MF (TRAP\_MF.m). Create a fuzzy set “Good Students performance” in UD Age using a trapezoidal MF with parameters {10, 30, 50,60}
3. Write a function to define a gaussian MF (GAUSS\_MF.m). Create a fuzzy set “Average Student” on Average Mark using a gaussian MF GAUSS\_MF(x,[50 10])
4. Write a function to define a Cauchy MF (GBELL\_MF.m). Create a fuzzy set “Medium Height” on Height using a GBELL\_MF(x,[16 20 50])
5. Write a function to define a Sigmoidal MF (SIG\_MF.m). Create a fuzzy set “heavy smoker” on No of cigarettes using SIG\_MF. SIG\_MF(x,[1,-5])
6. Fuzzy Complement
7. Sugeno’s Fuzzy Complement
8. Yager’s Fuzzy Complement
9. Intersection of two Fuzzy sets
10. T-NORM
11. Union of two Fuzzy sets
12. S-NORM
13. Concentration and Dilution
14. Contrast Intensication
15. Generate ANDNOT function using McCulloch-Pitts neural net.
16. Generate XOR function using McCulloch-Pitts neural net
17. Write a program for solving linearly separable problem using Perceptron Model.
18. Projection
19. Cylindrical extension