1. Write a program to implement a PDA that accepts equal number of 0's and 1's where n ≥ 1 by final state.
2. Write a program to implement a PDA that accepts equal number of 0's and 1's where n ≥ 1 by empty stack.
3. Write a program to implement a PDA that accepts $\mathbf{0^n1^n}$, where n ≥ 1 by final state.
4. Write a program to implement a PDA that accepts $\mathbf{wcw^r}$ where w ∈ {a,b} by final state.
5. Write a program to implement a PDA that accepts $\mathbf{a^nb^mc^n}$ where n,m>=1.