LAB - 8

1. Firstly,I converted the given hex code to 32-bit binary code and stored it as a vector.
2. Using .end(), extracted the opcode from 32- bit binary code and stored it as a vector.
3. Compared this opcode with opcodes of different formats like R,I,S,B,J,U.
4. Written 8 different functions for each format (in I format 3 cases) and extracted all like rd, rs1, rs2, offset imm.
5. In each function, cases for each instruction like add, or, xor, and, sub in R-format.
6. And stored each instruction as a string and converted binary to decimal for finding registers.
7. Using .push_back(), inserted all strings to the output vector.