Problem Statement:

There is existing code which validates eligibility for a particular program (customer program, not software program). The existing code uses a chain of if/else if/else if/else statements.

Each conditional check takes the same input set and the current logic returns a string based on a true result the reason for ineligibility.

We would like to rework this to remove the if/else if chain and replace it with code which is readily extendible without the need to modify the existing code, we also need to be able to specify in which order the items should fire.

Example of the current code

if (conditionOne(payloadObject, stringOne, stringTwo)) {

logger.info("PfLoanId : $pfLoan not eligible for reason One")

notAllowedReason = "Reason One"

} else if (conditionTwo(payloadObject, stringOne, stringTwo)) {

logger.info("PfLoanId : $pfLoan not eligible for reason Two")

notAllowedReason = "Reason Two"

} else if (conditionThree(payloadObject, stringOne, stringTwo)) {

logger.info("PfLoanId : $pfLoan not eligible for reason Three")

notAllowedReason = "Reason Three"

} else if (conditionFour(payloadObject, stringOne, stringTwo)) {

logger.info("PfLoanId : $pfLoan not eligible for reason Four")

notAllowedReason = "Reason Four"

} else if (conditionFive(payloadObject, stringOne, stringTwo)) {

logger.info("PfLoanId : $pfLoan not eligible for reason Five")

notAllowedReason = "Reason Five"

}