

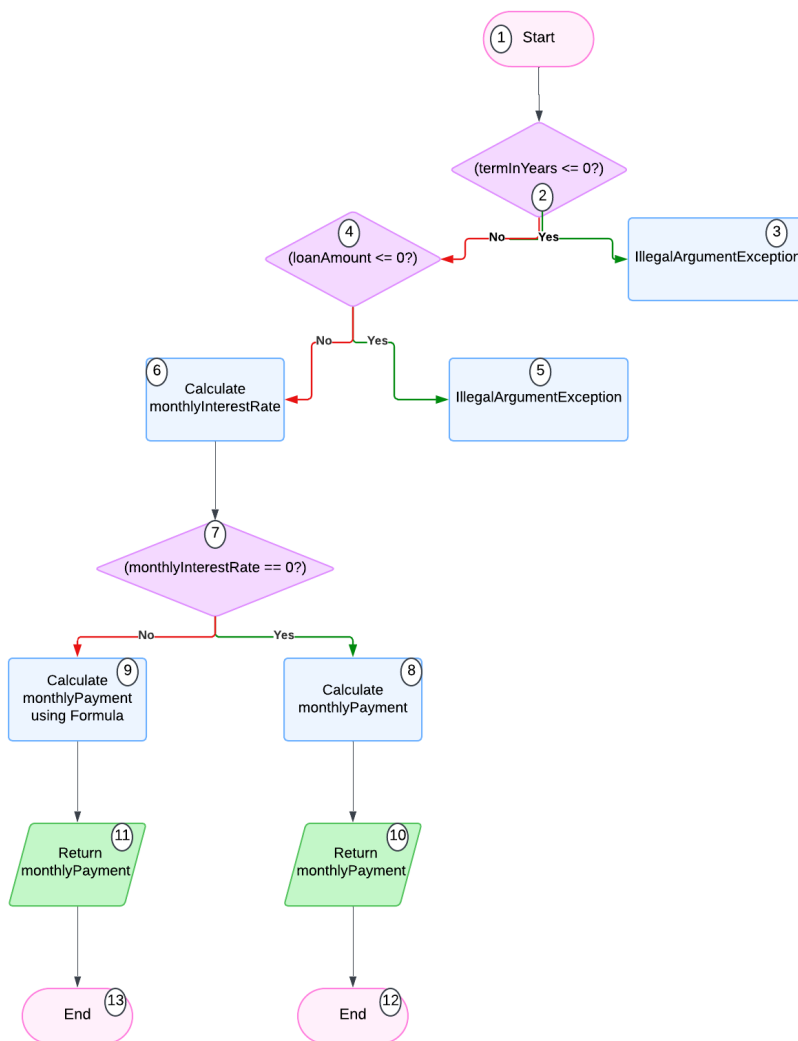


TED UNIVERSITY
Faculty of Engineering
Department of Software Engineering

SENG 453 Software Validation and Verification – Homework 2 Report

by
Ahmet Efe Ersoy-Pelin Hamdemir
25673197932-11596296166

Q1



Path 1: 1-2-3
Path 2: 1-2-4-5
Path 3: 1-2-4-6-7-8-10-12
Path 4: 1-2-4-6-7-9-11-13

Q3

Test Case	Loan Amount (loanAmount)	Interest Rate (interestRate)	Loan Term (termInYears)	Expected Behavior	Expected Monthly Payment	Exception Expected
1	100.000	5	15	Regular Loan Calculation	Calculated with formula	No
2	100.000	0	15	Zero Interest Rate	$\text{loanAmount} / (\text{termInYears} * 12)$	No
3	100.000	5	0	Invalid Loan Term (≤ 0)	N/A	IllegalArgumentException
4	0	5	15	Invalid Loan Amount (≤ 0)	N/A	IllegalArgumentException
5	100.000	5	-1	Invalid Loan Term (negative)	N/A	IllegalArgumentException
6	-50.000	5	10	Invalid Loan Amount (negative)	N/A	IllegalArgumentException
7	50.000	5	1	Short Loan Term	Calculated with formula	No