Софтверски Квалитет и Тестирање

Лабораториска вежба 3

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1. Предикати и клаузули

- Fo passnedybame if-om: ((yearsEmployed > 3 && loanAmount<= 10000 && !isFirstTimeBorrower) || (loanAmount > 10000 && creditScore > 700))
- Клаузули:

C1: yearsEmployed > 3

C2: loanAmount <= 10000

C3: !isFirstTimeBorrower

-C2 : loanAmount > 10000

C4: creditScore > 700

Предикат: P= (C1 ∧ C2 ∧ C3) V (¬C2 ∧ C4)

2. Таблица на вистинитост

Num	C1	C2	C3	C4	Р	PC1	PC2	PC3	PC4
1.	Т	Т	Т	Т	Т	Т		Т	
2.	Т	Т	Т	F	Т	Т	T	Т	
3.	Т	Т	F	Т	F		T	Т	
4.	Т	Т	F	F	F			Т	
5.	Т	F	Т	Т	Т				T
6.	Т	F	Т	F	F		T		T
7.	Т	F	F	Т	Т		T		T
8.	Т	F	F	F	F				T
9.	F	Т	Т	Т	F	T	Т		
10.	F	Т	Т	F	F	Т			
11.	F	Т	F	Т	F		Т		
12.	F	Т	F	F	F				
13.	F	F	Т	Т	Т		T		T
14.	F	F	Т	F	F				Т
15.	F	F	F	Т	Т		T		Т
16.	F	F	F	F	F				T

3. TR за GACC и CACC

- a) GACC (General Active Clause Coverage):
- C1 (1, 9)

Pe∂ 1: $(T, T, T, T) \rightarrow P=T$

Pe∂ 9: $(F, T, T, T) \rightarrow P=F$

• C2 (2, 6)

Pe∂ 2: $(T, T, T, F) \rightarrow P=T$

Pe∂ 6: $(T, F, T, F) \rightarrow P=F$

• C3 (1, 3)

Pe∂ 1: (T, T, T, T) \rightarrow P=T

Pe∂ 3: $(T, T, F, T) \rightarrow P=F$

• C4 (5, 6)

Pe∂ 5: (T, F, T, T) \rightarrow P=T

Pe∂ 6: $(T, F, T, F) \rightarrow P=F$

b) CACC (Correlated Active Clause Coverage):

Pe∂ 1:
$$(T, T, T, T) \rightarrow P=T$$

Pe∂ 9: (F, T, T, T)
$$\rightarrow$$
 P=F

Pe∂ 2:
$$(T,T,T,F) \rightarrow P=T$$

Pe∂ 6:
$$(T,F,T,F) \rightarrow P=F$$

Pe∂ 1:
$$(T, T, T, T) \rightarrow P=T$$

$$Ped$$
 3: (T, T, F, T) \rightarrow P=F

Pe∂ 5: (T, F, T, T)
$$\rightarrow$$
 P=T

Pe∂ 6: (T, F, T, F)
$$\rightarrow$$
 P=F