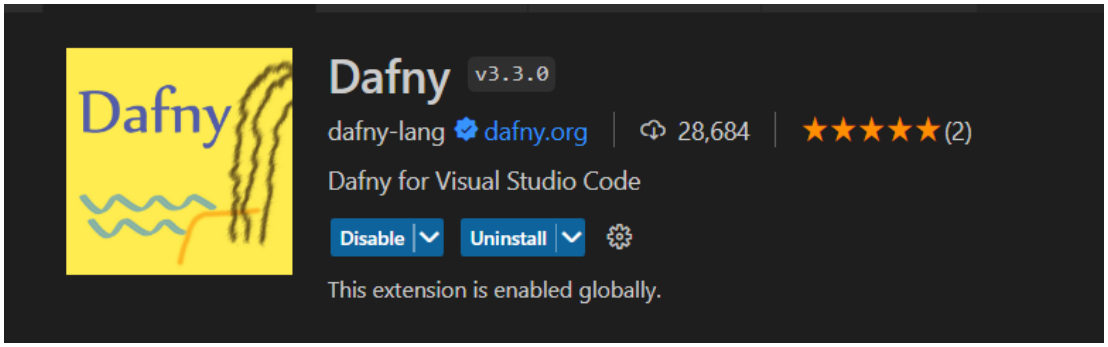
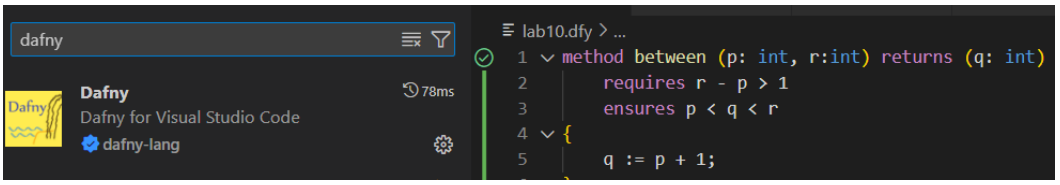
Student: Stănescu Andreea-Francesca

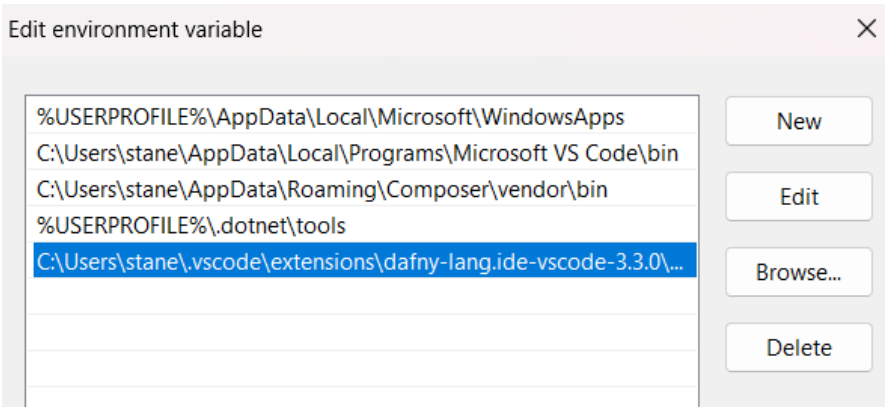
Laborator 10

Instalare Dafny + Exemplu

1. Instalare







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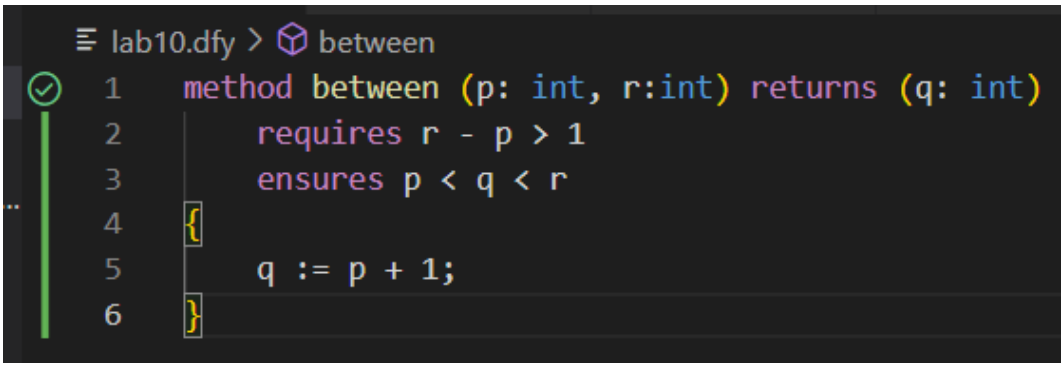
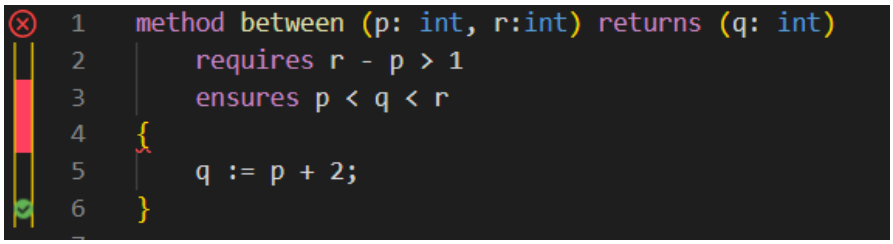
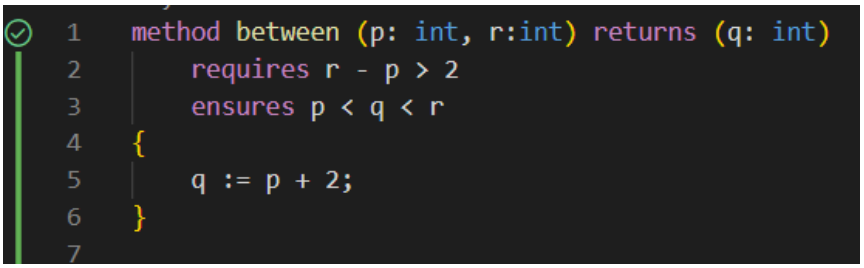
2. *Exemplul din laborator*



1. Programul defineste o metoda numita between care primeate doi parametri intregi p și r si returneaza un intreg q. Aceasta asigura ca q este un numar intre p si r, mai exact q este cu 1 mai mare decat p
   Preconditia: requires r – p > 1 (diferenta dintre r si p trebuie sa fie mai mare de 1)
   Postconditia: ensures p< q < r (q trebuie sa fie mai mare decat p si mai mic decat r)

2. Daca schimbam corpul metodei cu q := p + 2, nu se mai respecta postconditia in toate cazurile. Mai exact, pentru a respecta postconditia p < q < r, trebuie ca p + 2 < r, adica r - p > 2.





3. Daca schimbam preconditia cu r - p >= 1, atunci preconditia permite și cazuri in care diferenta dintre r si p este exact 1. In acest caz, corpul metodei q := p + 1 va face ca q sa fie egal cu r, ceea ce nu respecta postconditia p < q < r. Preconditia trebuie sa ramana r - p > 1 pentru a ne asigura ca p si r sunt suficient de departe unul de celalalt.