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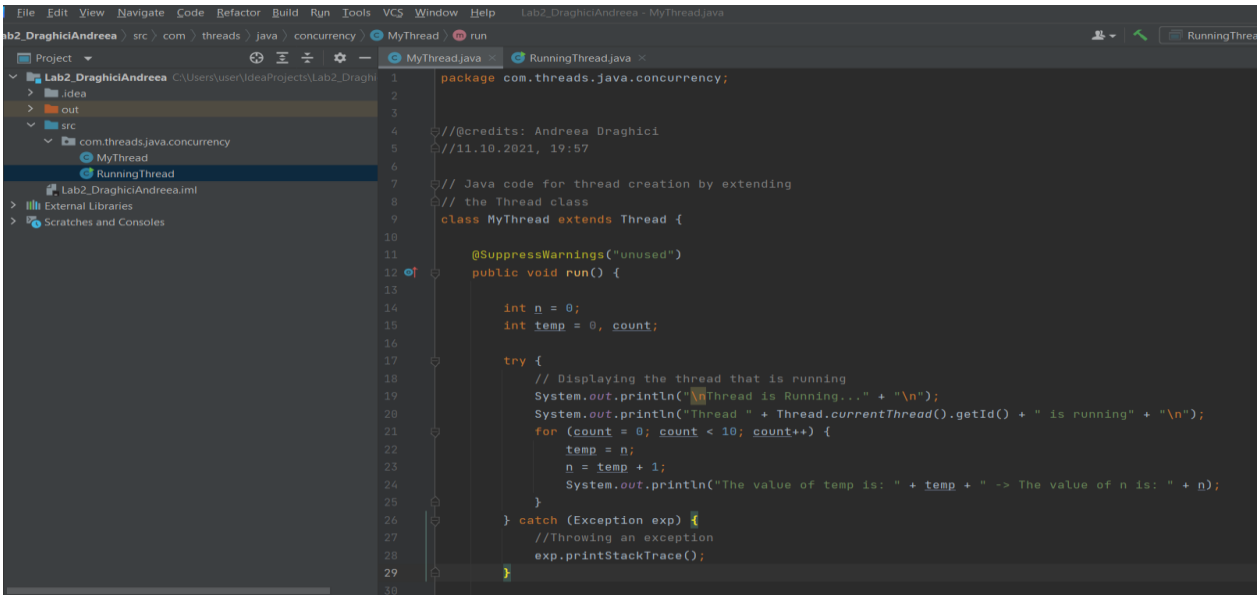
Raport Laborator 2

Rezolvare cerinta 1:

Am creat un proiect nou in Intellij IDEA, apoi am creat un package denumit com.threads.java.concurrency unde am creat doua clase, MyThread si RunningThread, iar ca prim program, am implementat algoritmul de la cerinta 2, dar doar pentru un singur fir. Observatiile le-am adaugat mai jos, atasand si un screenshot cu implementarea si rezultatul.

Clasa MyThread suprascrie metoda run() in clasa Thread, iar aici un fir “isi incepe viata”.



Programul utilizeaza doua variabile intregi temp si n si ruleaza un fir care va incrementa variabila n pana la 10 si variabila temp, care va fi mereu n-1.

In clasa RunningThread cream un nou obiect denumit threadObj si apelam metoda start() pentru a incepe executarea unui thread.

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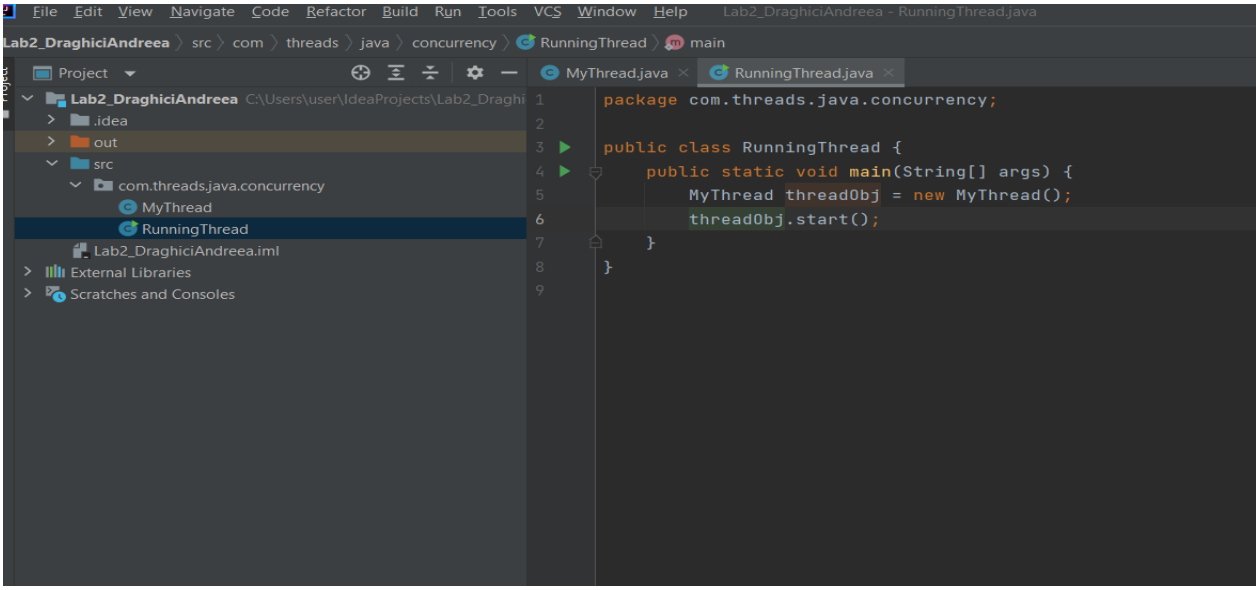
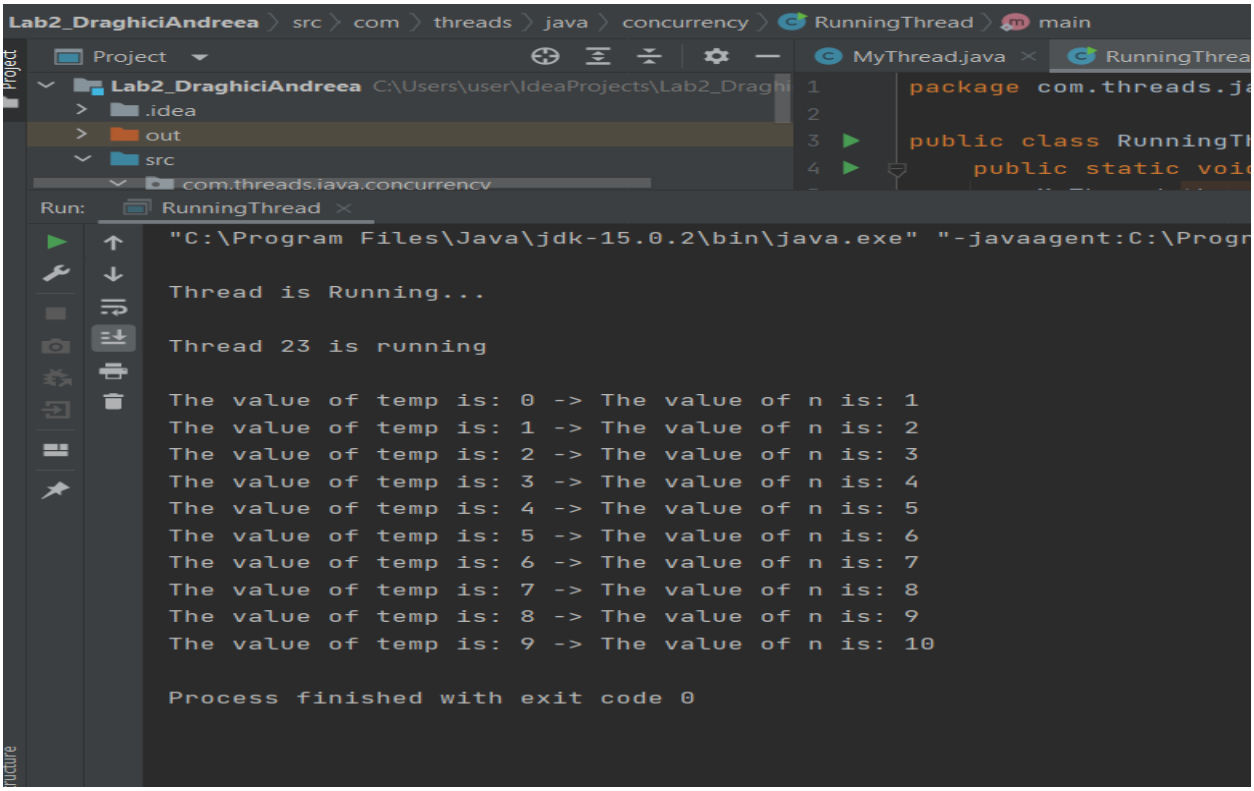


Mai jos se pot vedea rezultatele finale in urma rularii programului de mai sus , unde aici un fir “isi incepe viata”:



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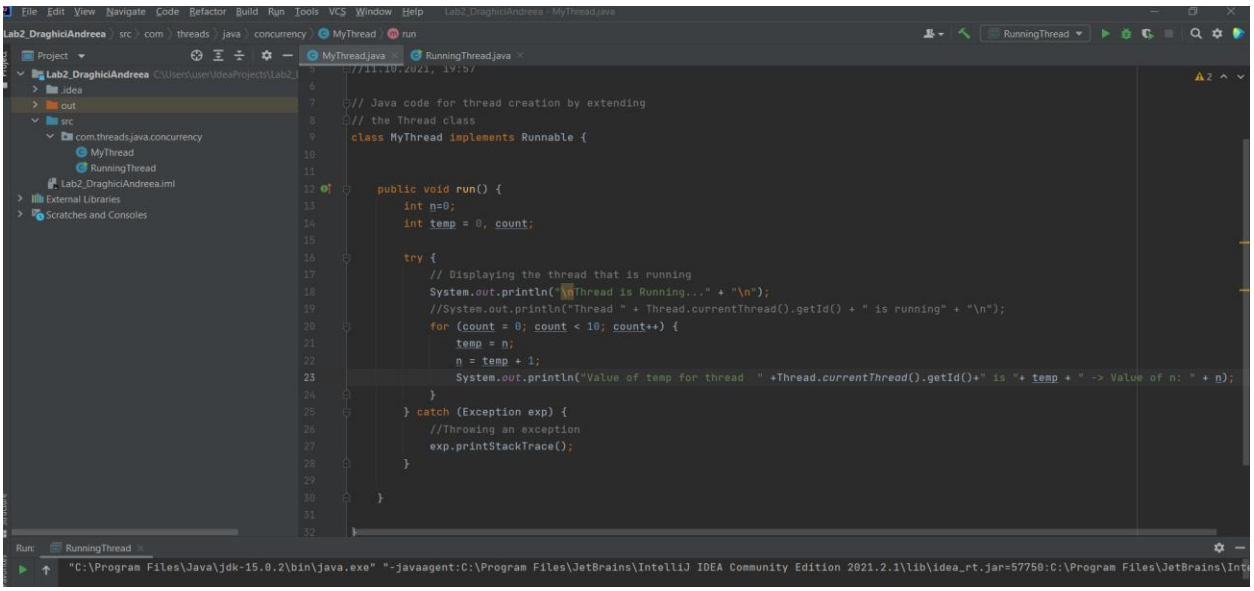
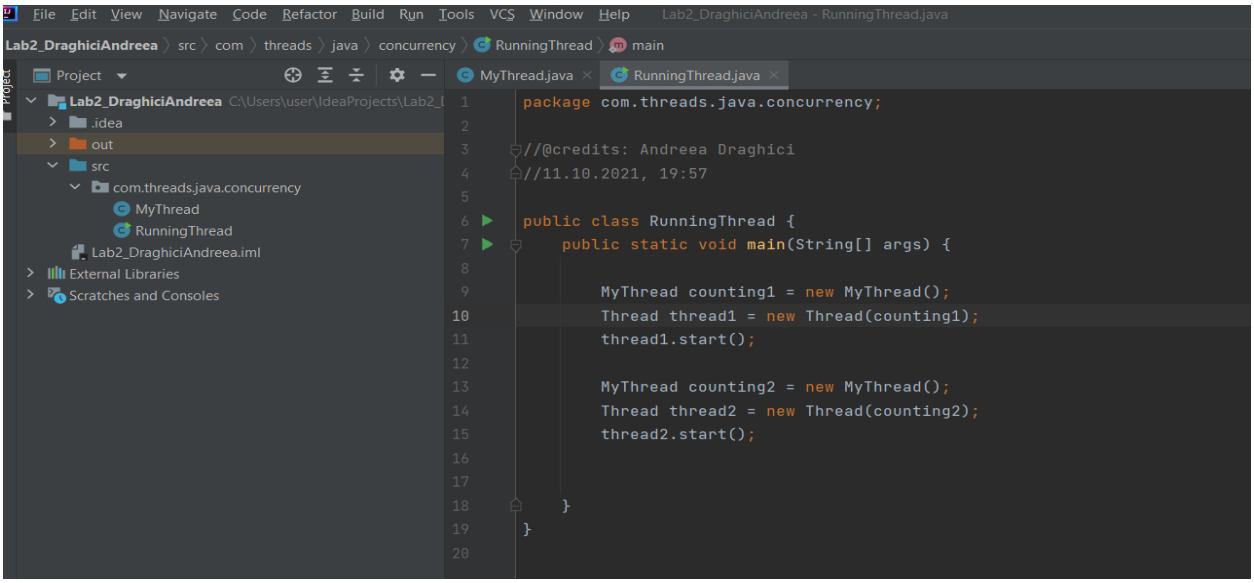
Rezolvare cerinta 2:

Pentru reolvarea cerintei 2, am ales sa folosesc aceeasi clasa MyThred care de data aceasta implementeaza interfata Runnable.

Programul utilizeaza doua variabile intregi temp si n si ruleaza doua fire care vor incrementa variabila n pana la 10 si variabila temp, care va fi mereu n-1.



Apoi instantiem doua obiecte thread si apelam metoda start() pe aceste obiecte.



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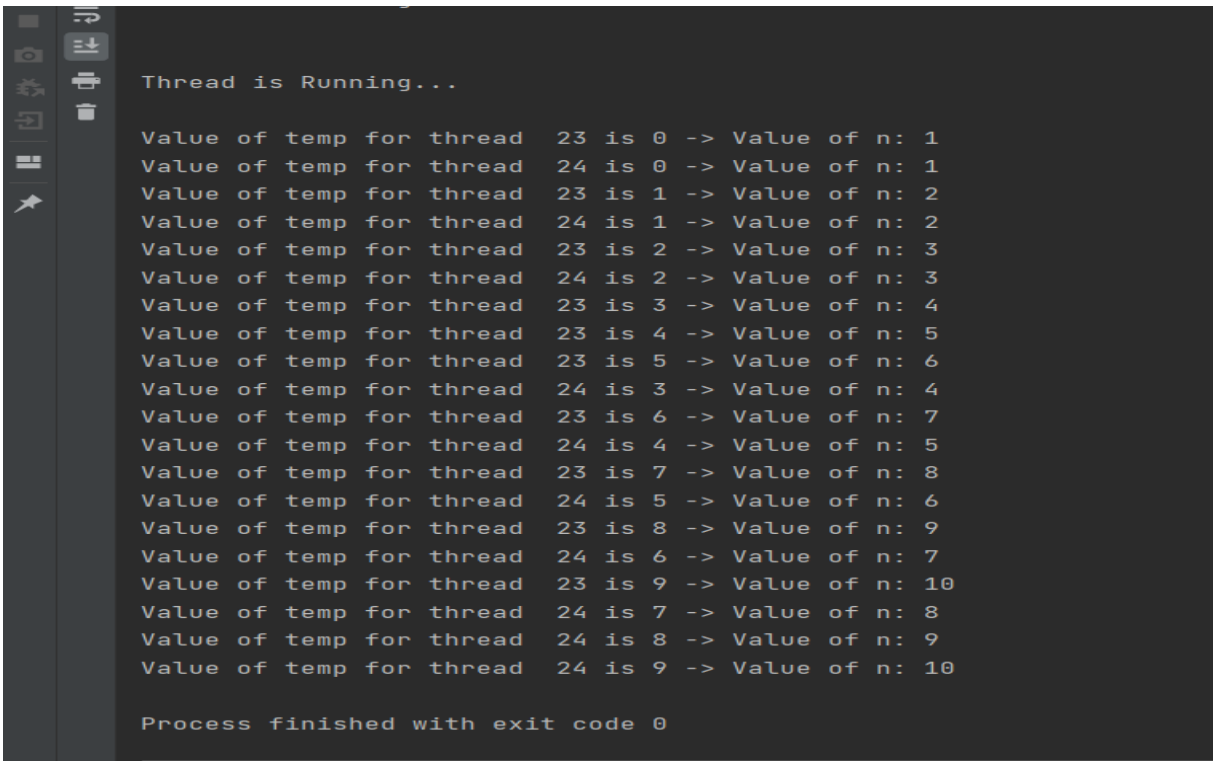
Mai jos se pot vedea rezultatele finale in urma rularii programului de mai sus , unde aici doua fire “isi incep viata”:



Observatie: Daca implementam interfata Runnable, clasa noastra MyThread poate extinde in continuare alte clase de baza, adica putem realiza functionalitatea de baza a unui thread extinzand clasa de baza Thread.