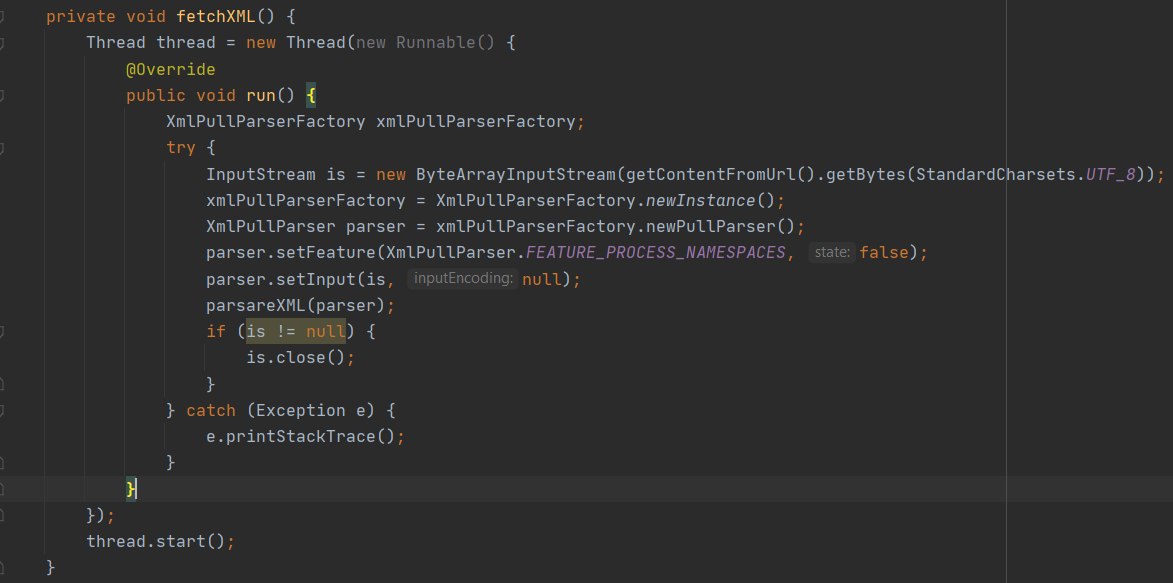
***Document tehnic***

**~Curs BNR - Inventar~**

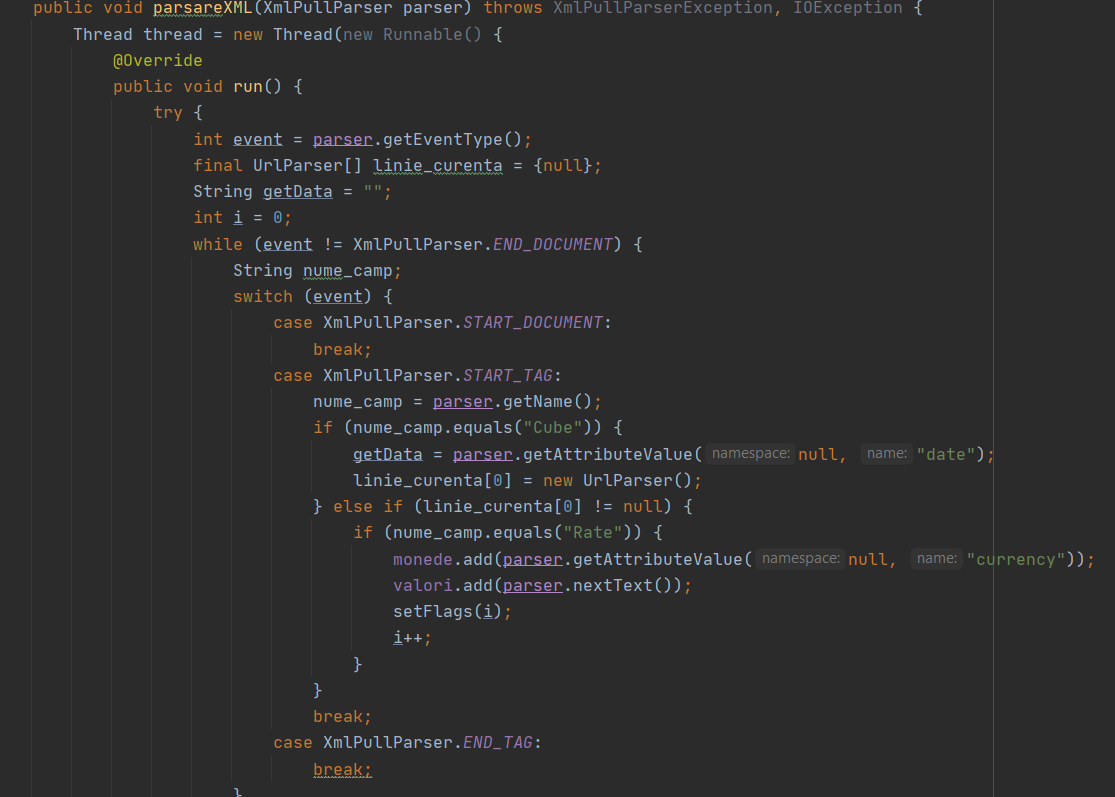
* getContentFromURL(){} -> functie care preia continutul unui fisier de tip XML de la URL-ul : “ <https://www.bnr.ro/nbrfxrates.xml> ” si il transmite ca si input catre parser(URL-ul specific ultimei actualizari a cursului).



* fetchXML(){} -> functie care creeaza o noua instanta de parser, caruia ii atribui input-ul dorit si care apeleaza functia de parsare necesara.

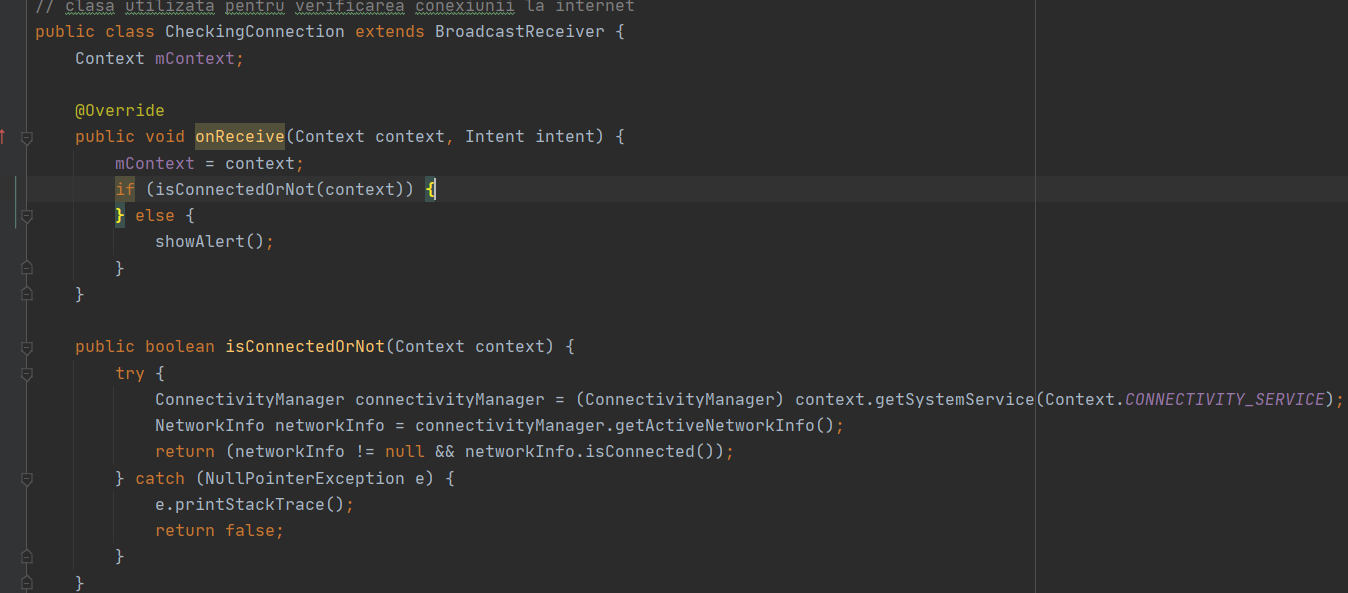


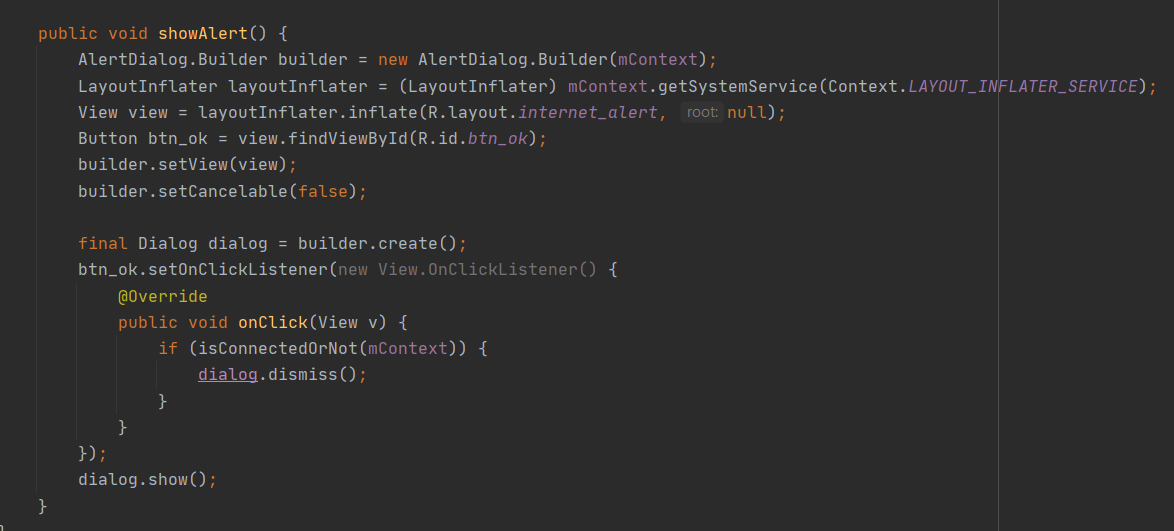
* parsareXML(){} -> functie care realizeaza parsarea propriu-zisa si adaugarea datelor necesare (monele si valoarea corespunzatoare lor) in lista ce urmeaza sa fie afisata.



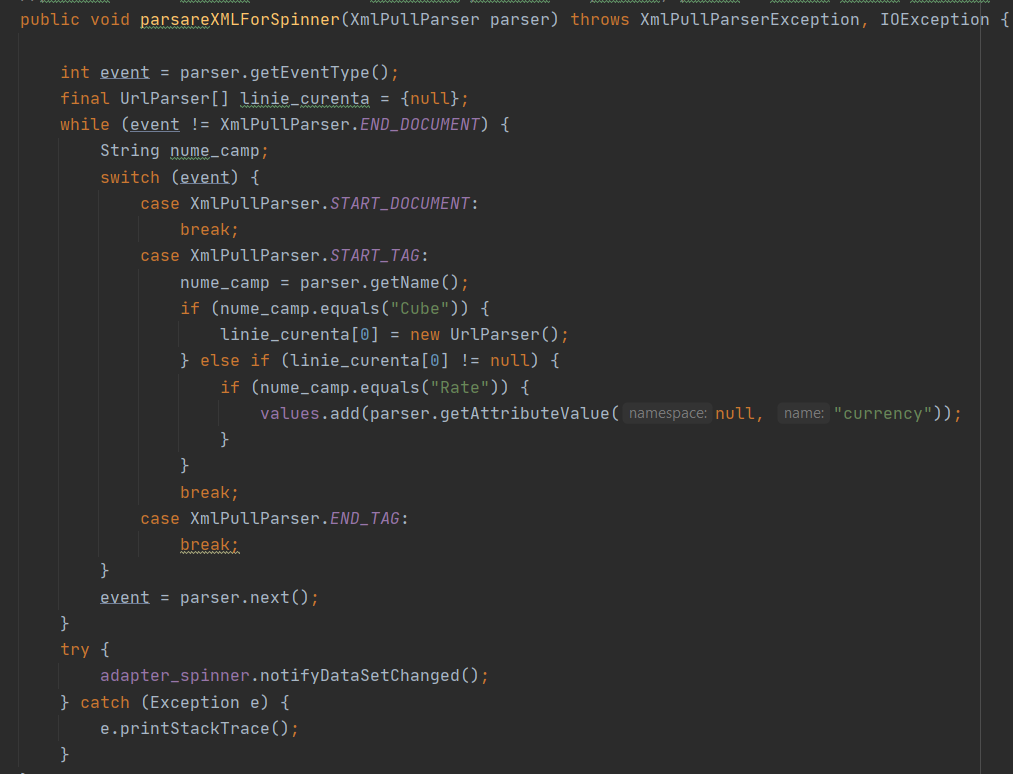


* CheckingConnection -> clasa utilizata pentru verificarea conexiunii dispozitivului la internet.

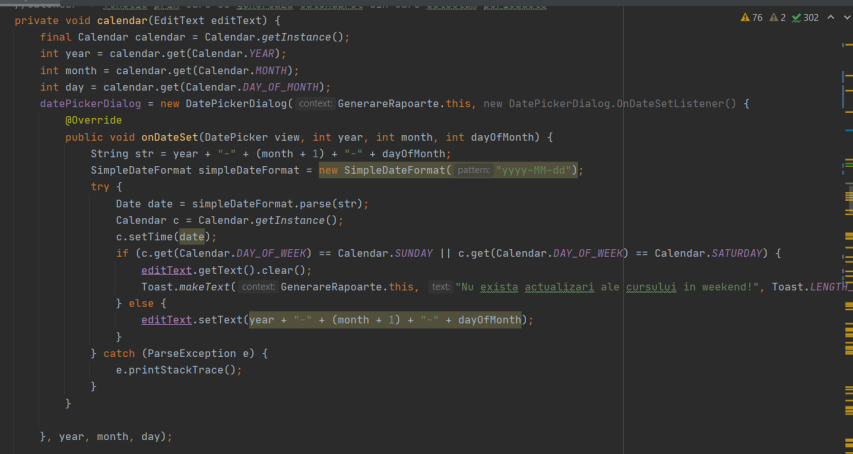


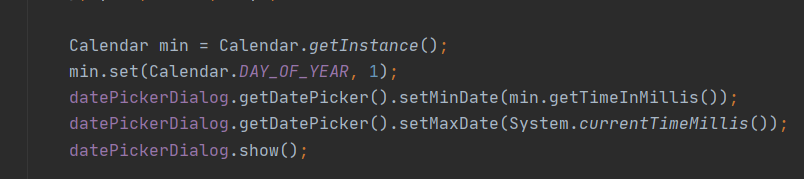


* parsareXMLForSpinner(){} -> functie ce realizeaza parsarea propriu-zisa a fisierului XML , preia din acesta doar numele monedelor si le adaugata in lista ce reprezinta elementele spinner-ului.

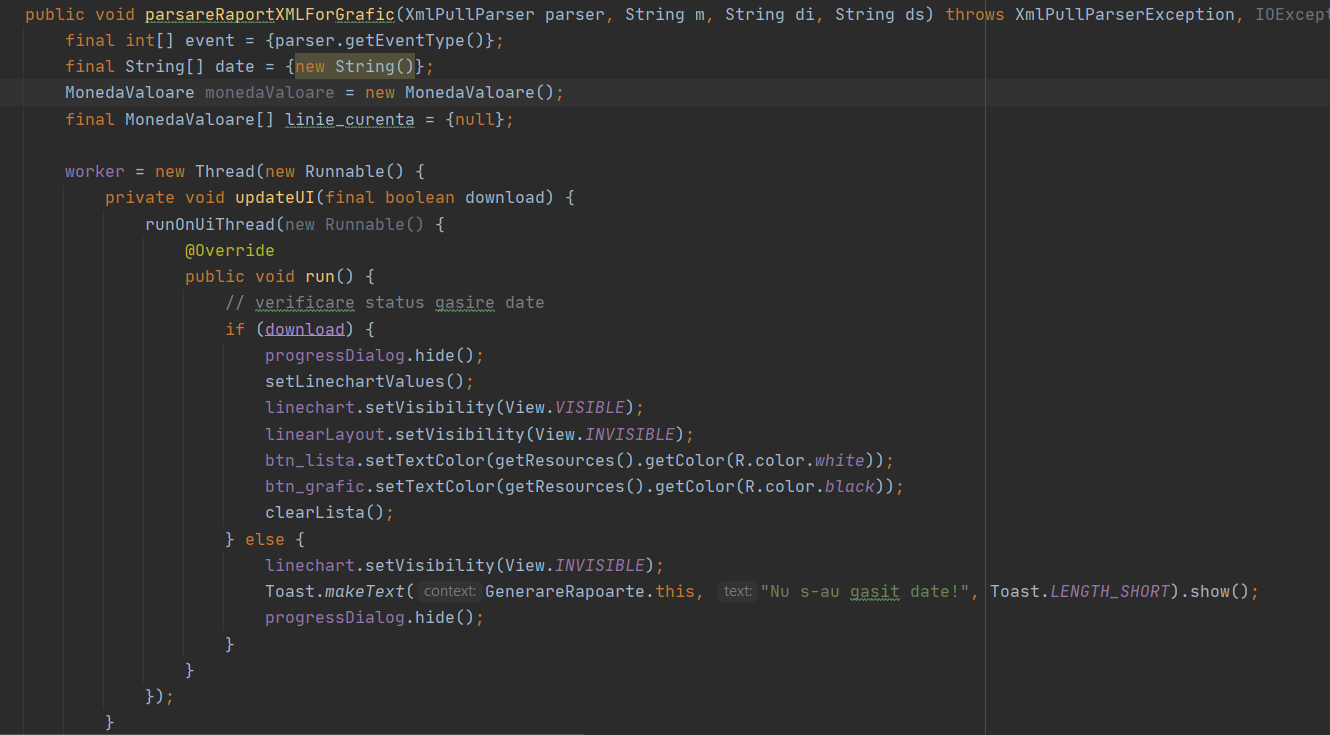


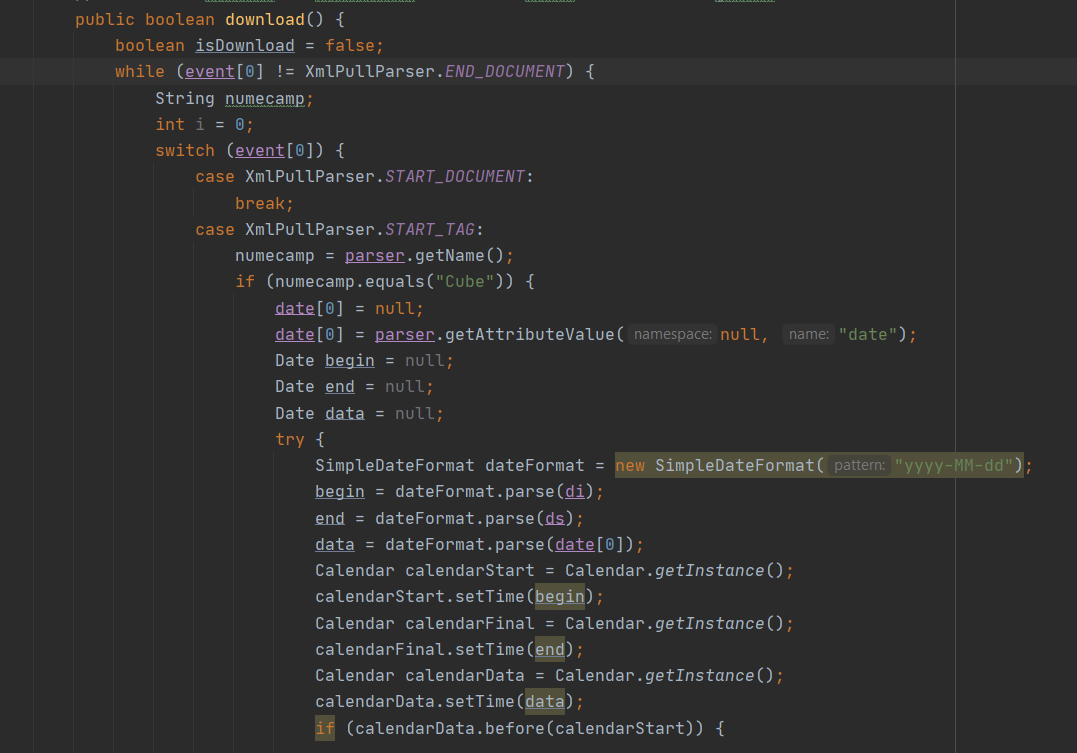
* calendar(){} -> functie care genereaza calendarul din care se aleg data de inceput si cea de sfarist.

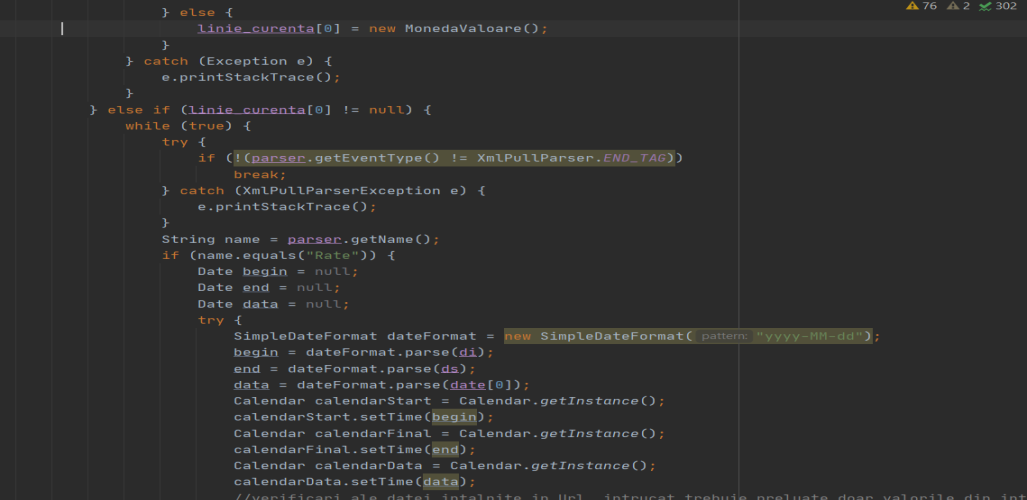


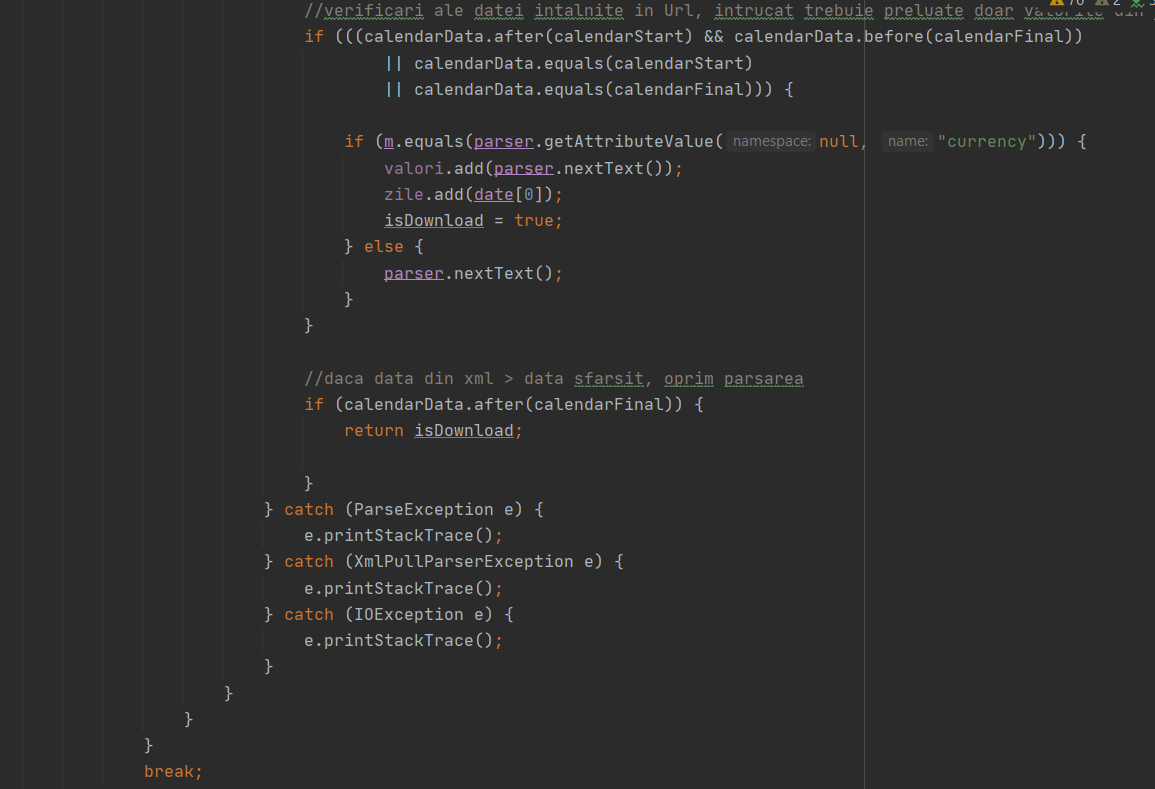


* parsareRaportXMLForGrafic(){} -> functie ce realizeaza parsarea propriu-zisa a fisierului XML, preia din acesta in functie de moneda selectata in spinner, toate valorile acesteia din intervalul ales. Valorile sunt atribuite unui vector care reprezinta valorile de pe grafic.( XML este preluat de la URL-ul :“ <https://www.bnr.ro/files/xml/years/nbrfxrates2021.xml> ”)



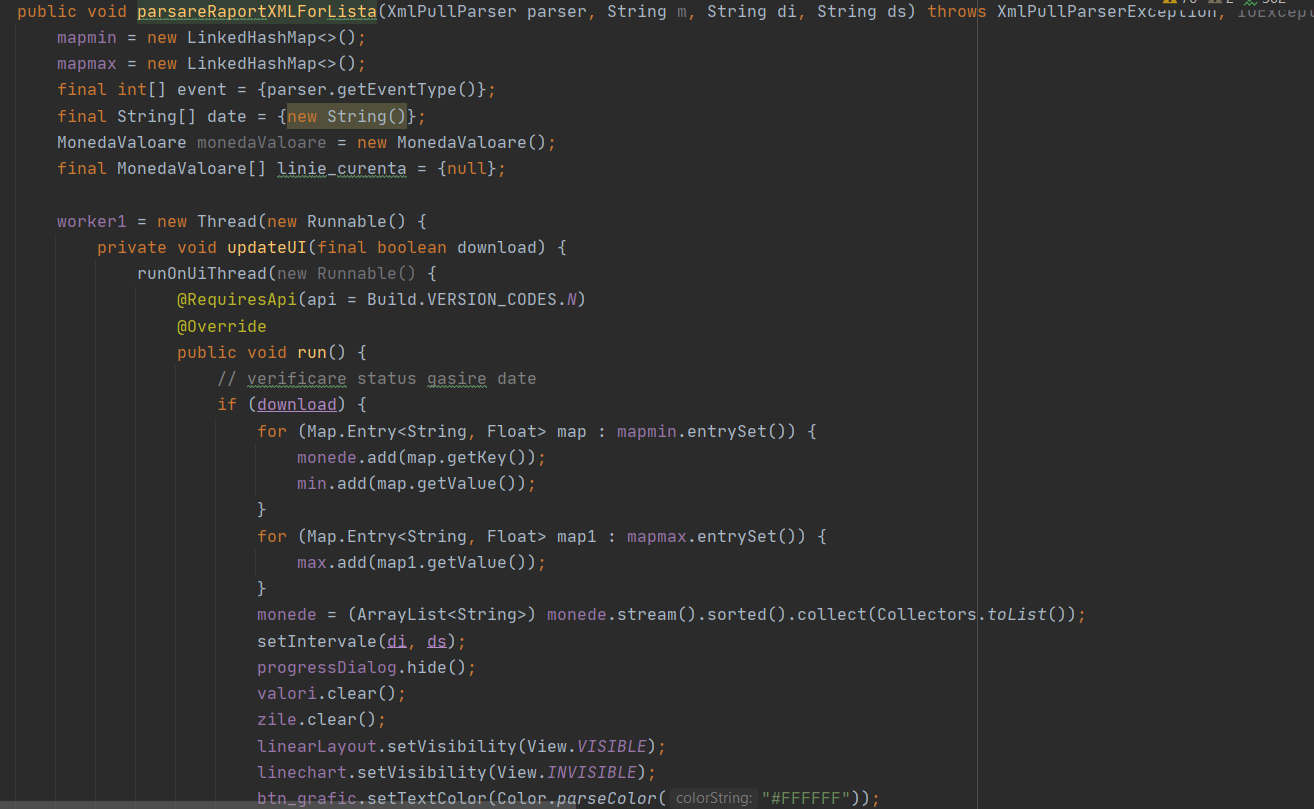


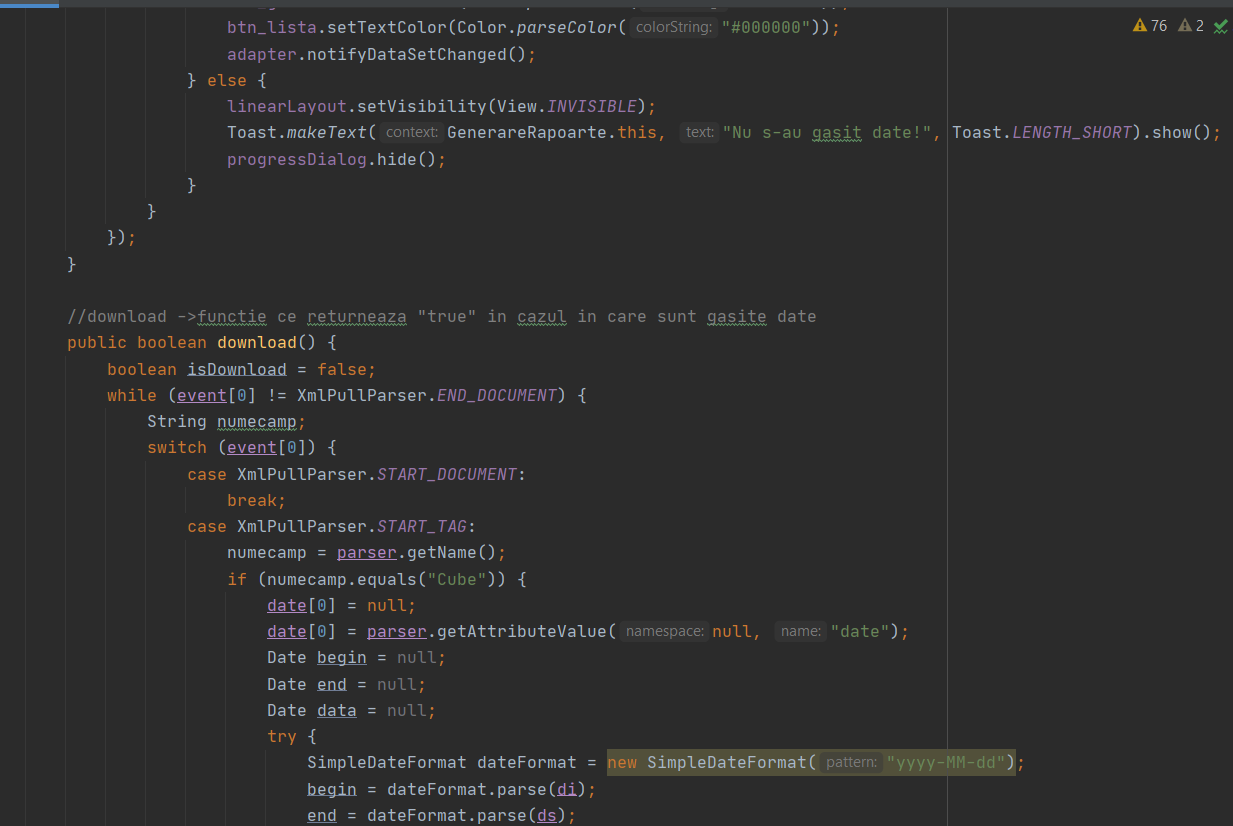


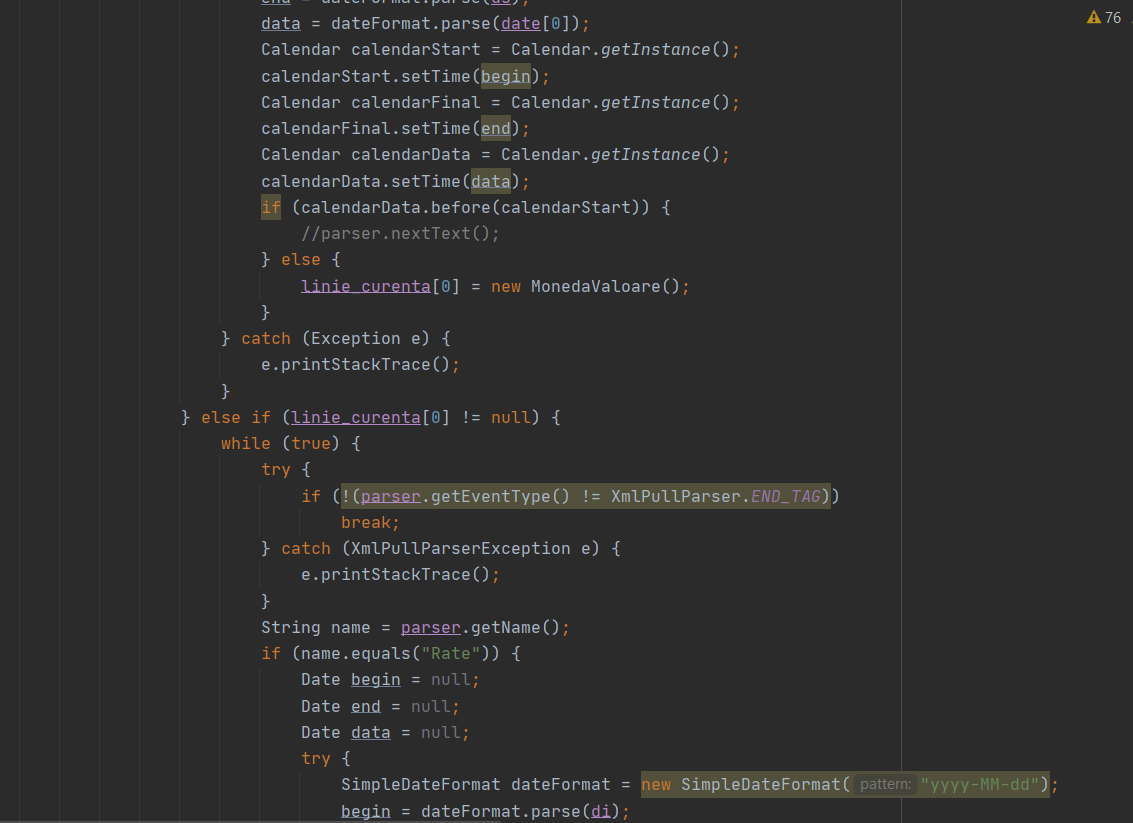


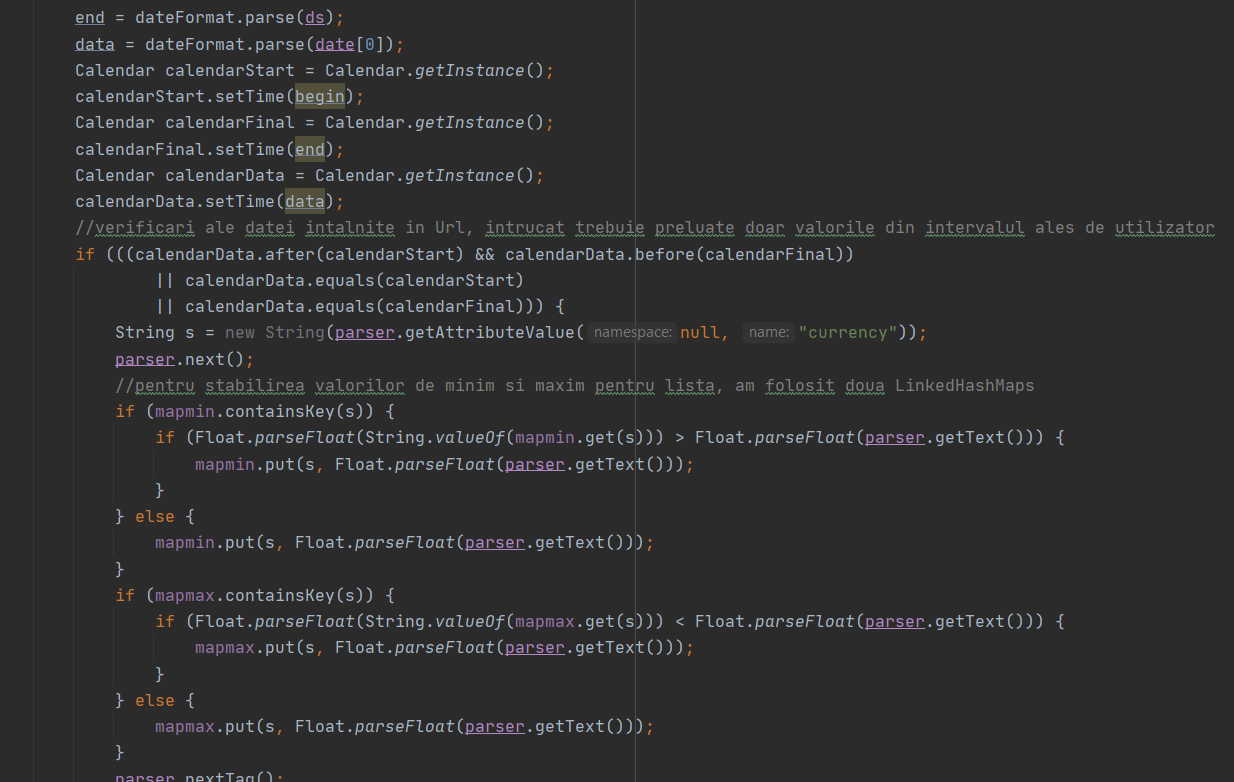


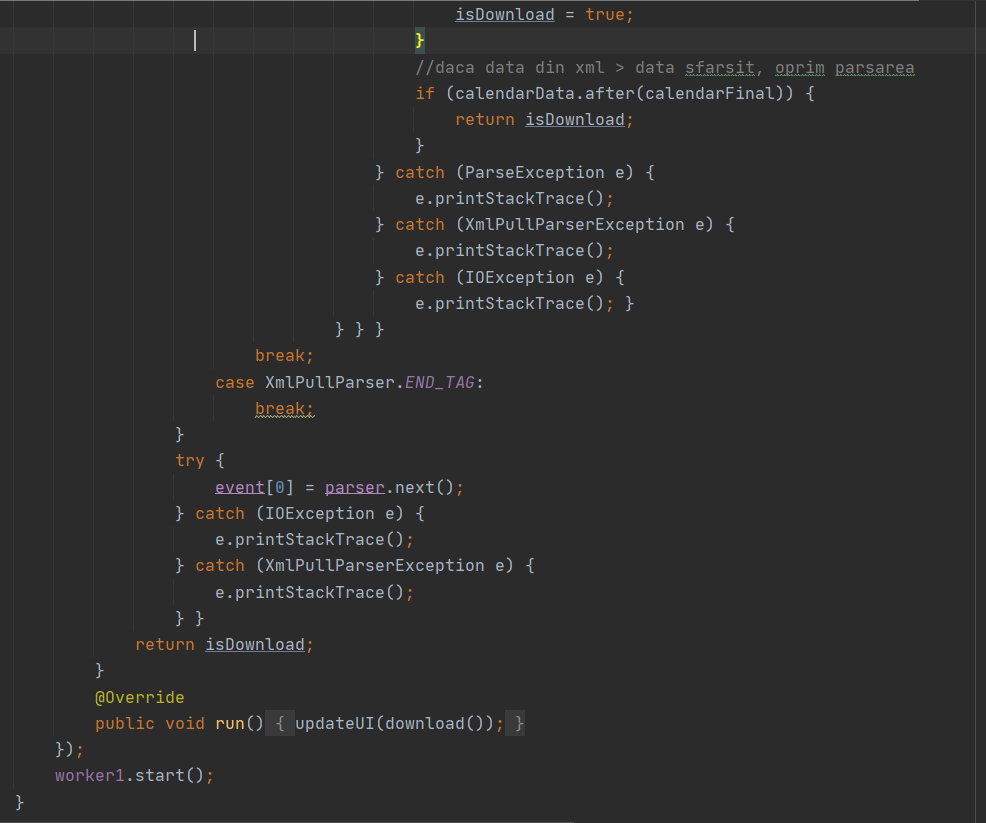
* parsareRaportXMLForLista(){} -> functie ce realizeaza parsarea propriu-zisa a fisierului XML, preia din acesta in functie de intervalul ales, valorile minime si maxime pentru fiecare moneda, valorile minime si maxime fiind decise cu ajutorul a doua LinkedHashMap-uri in care se stocheaza valorile respective. ( XML este preluat de la URL-ul : “ <https://www.bnr.ro/files/xml/years/nbrfxrates2021.xml> ”)



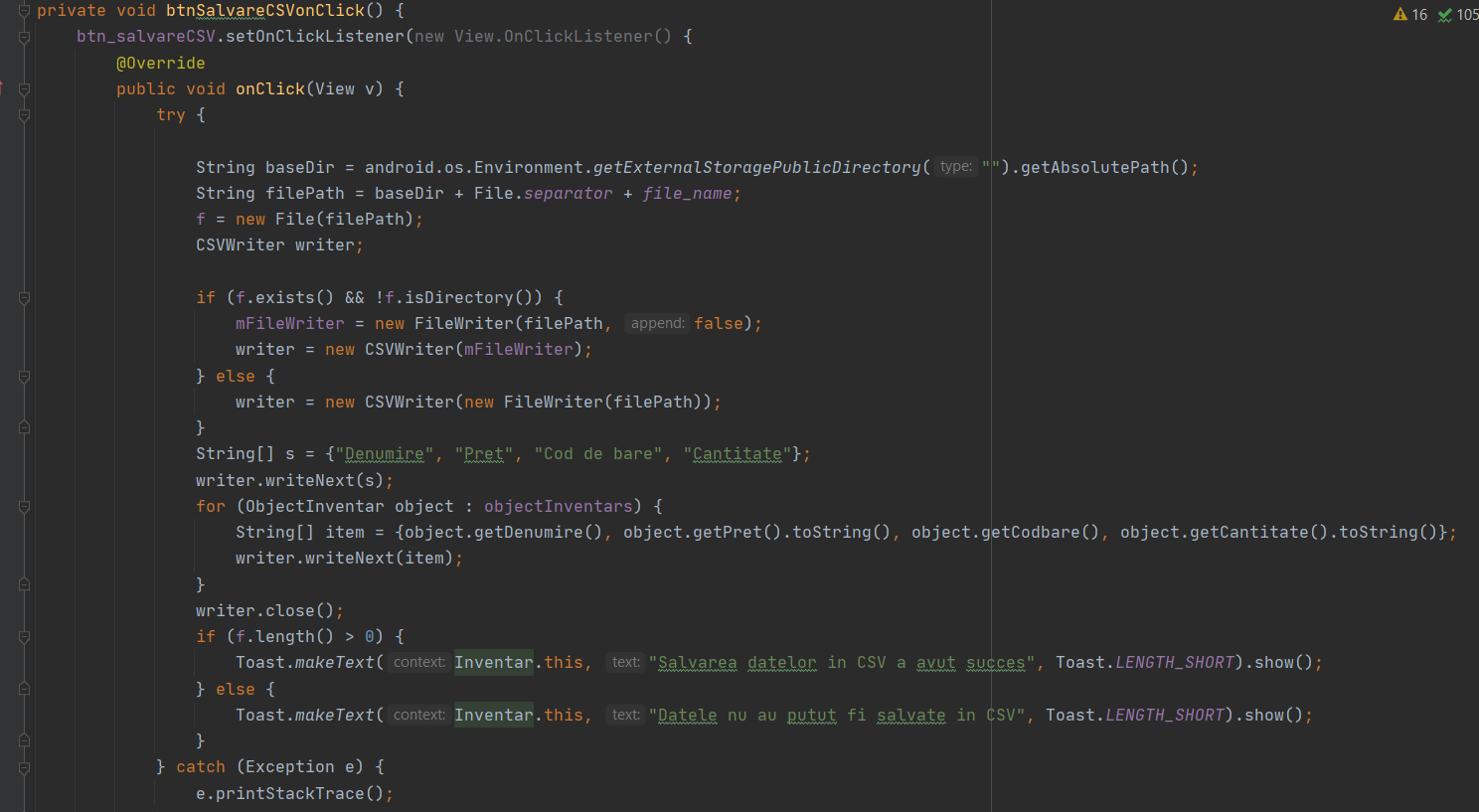




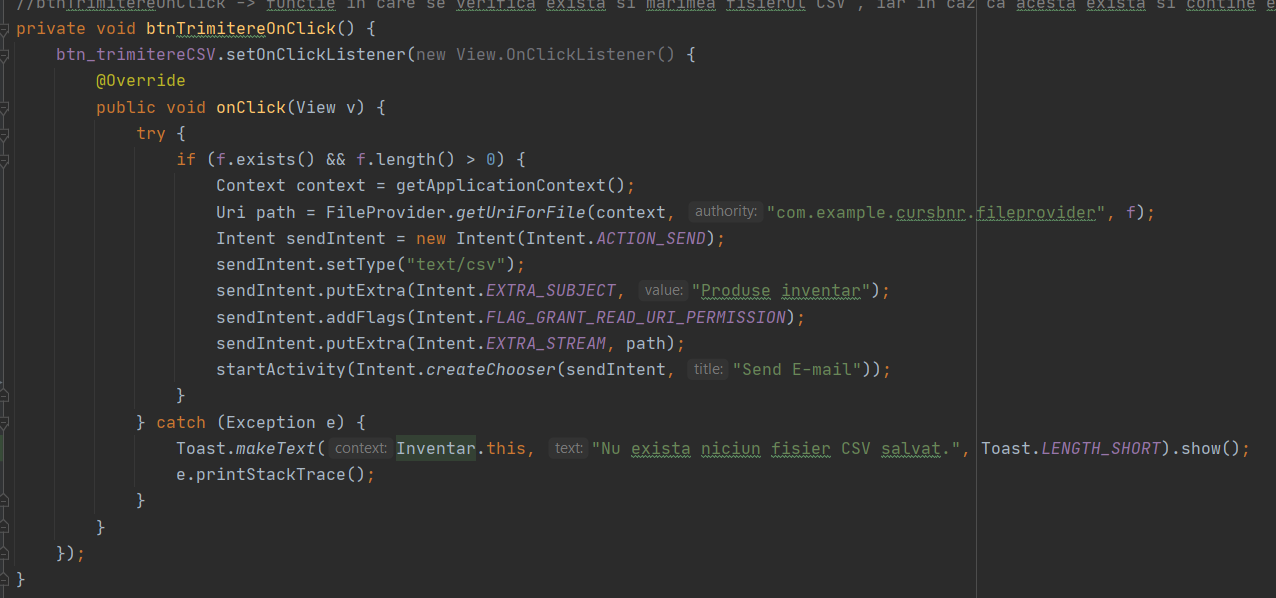




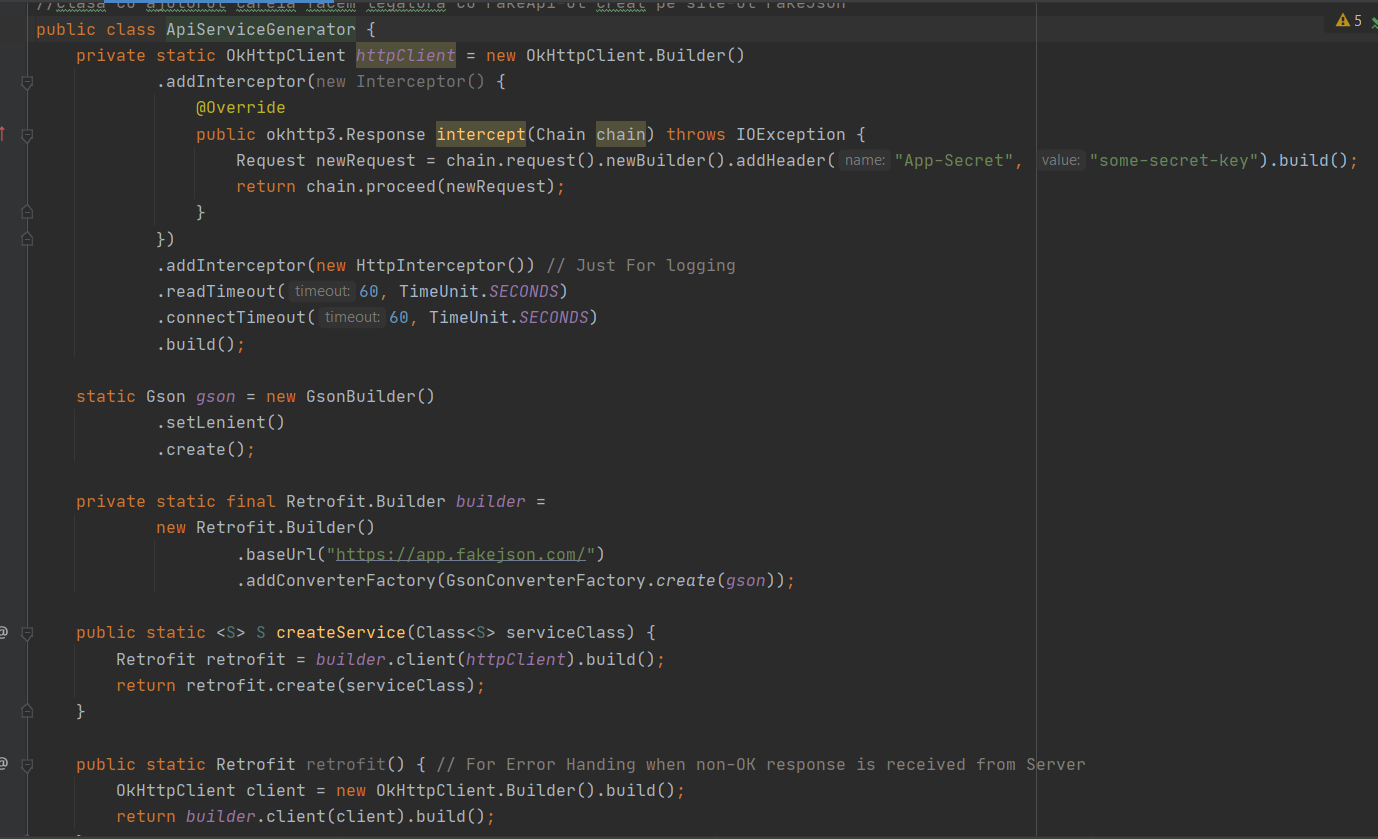
* btnSalvareCSVonClick(){} ->functie pe onClick care salveaza toate datele din lista din Inventar intr-un fisier de tip CSV , in memoria telefonului.



* btnTrimitereOnClick(){} -> functie pe onClick care verifica intai existenta fisierului de tip CSV, apoi daca acesta exista si contine date , afiseaza un popup cu variante prin care se poate trimite fisierul.

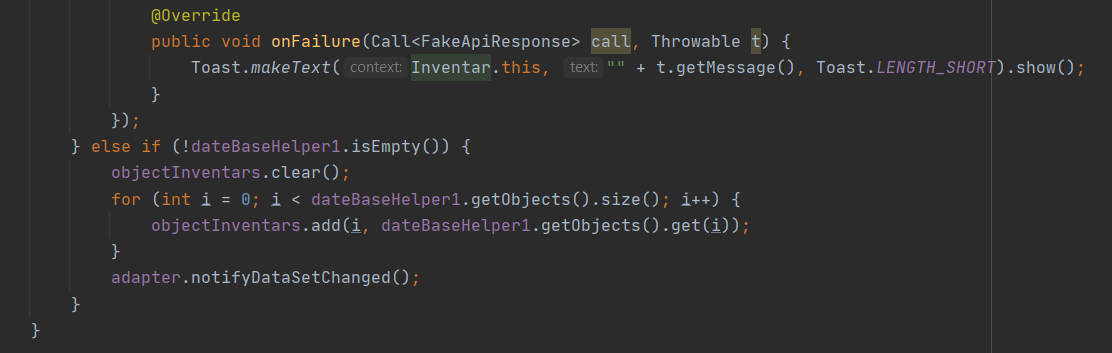


* ApiServiceGenerator() -> clasa folosita pentru generarea unui retrofit catre URL-ul: ” <https://app.fakejson.com/q/lxLELIAa?token=Hs8D_qCghmZCie47XKkg9w> ” ,care contine fisierul Json care cuprinde datele necesare popularii listei din Inventar.



* retrofit() -> functie care verifica intai daca baza de date contine date din fisierul Json, daca nu, face apel catre acesta cu ajutorul clasei “ApiServiceGenerator”,clasei de tip obiect “FakeApiResponse” si a interfetei “JsonFakeApi”( care contine comanda de GET din fisier), iar daca apelul este realizat cu succes , raspunsul acestuia este inserat in baza de date de unde va fi adaugat in lista afisata in activitatea Inventar.





* Am activat Proguard pentru aplicatie pentru obfuscarea codului si reducerea memoriei totale a APK-ului.

