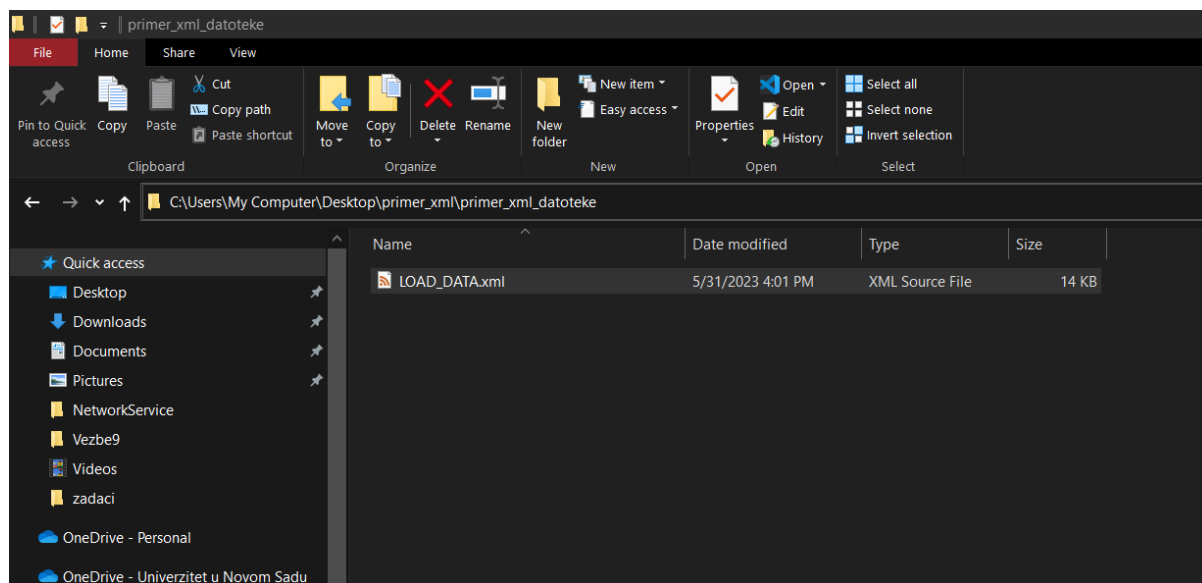


# Uputstvo za korišćenje aplikacije

U ovom dokumentu prikazaćemo na koji način korisnik treba da rukuje aplikacijom i koji su koraci koje treba ispratiti.

Korak 1:

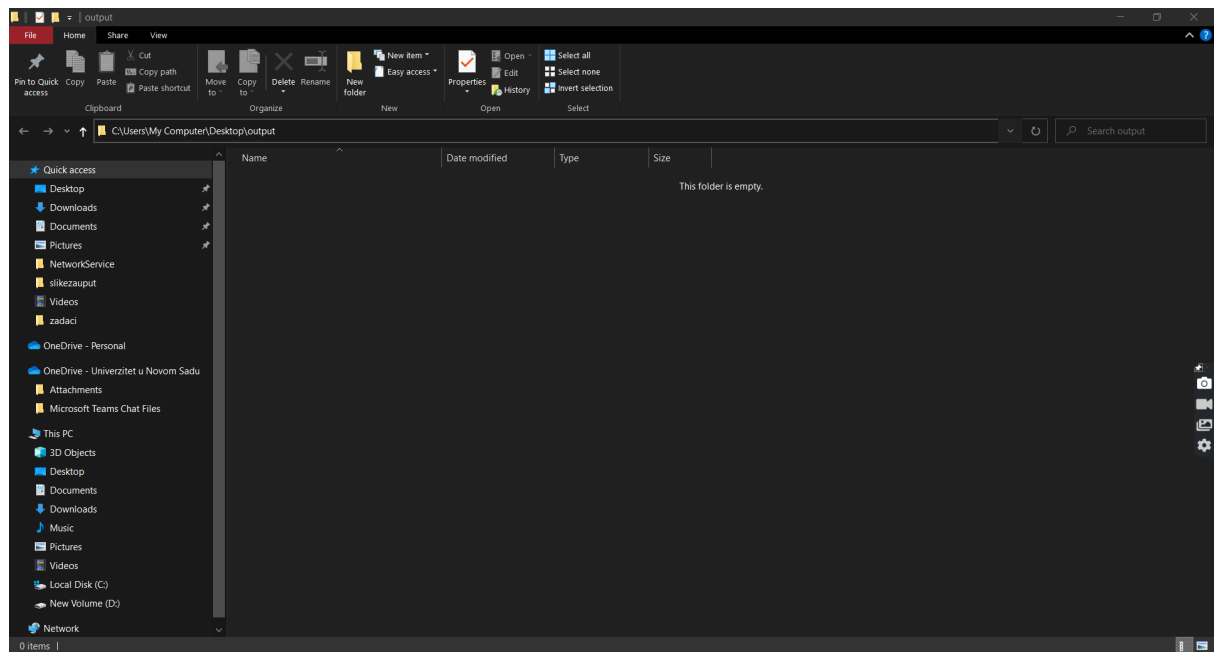


Početni XML fajl iz kog treba čitati podatke moramo sačuvati u bilo kom folderu na našem računaru.

Izgled XML fajla sa zadatim vrednostima:

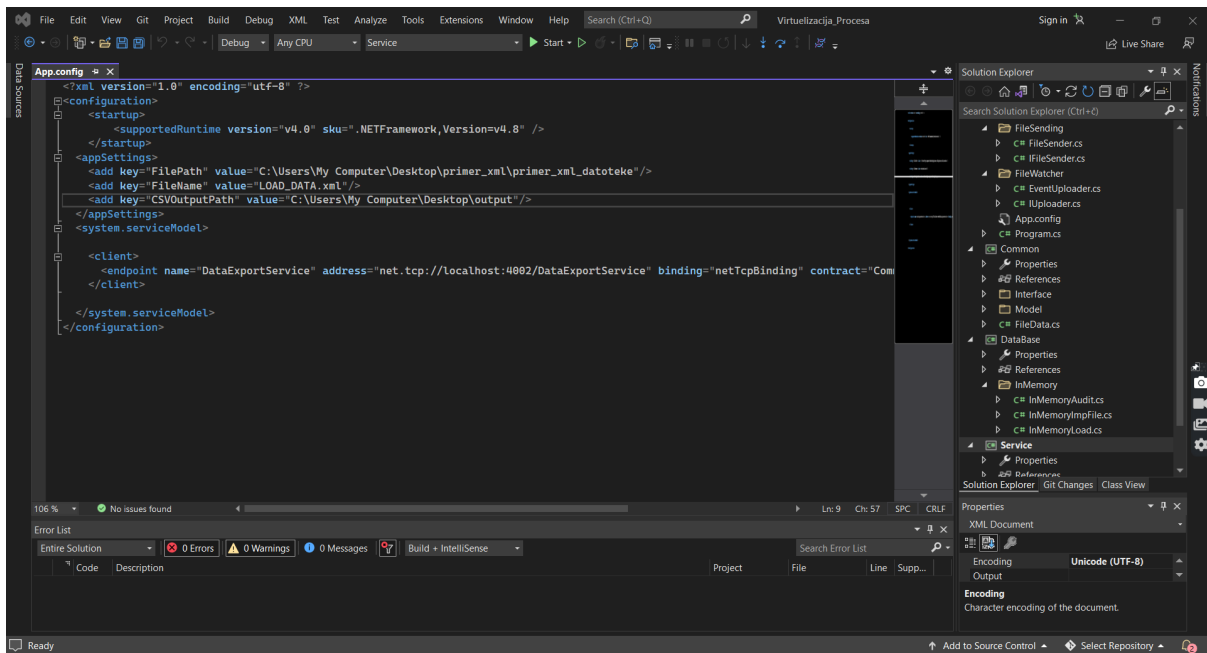
```
LOAD_DATA.xml X
C: > Users > My Computer > Desktop > primer.xml > primer.xml.datoteke > LOAD_DATA.xml
1 <?xml version="1.0" encoding="utf-8" standalone="no"?>
2 <ROWS>
3   <ROW>
4     <TIME_STAMP>2023-01-17 00:00</TIME_STAMP>
5     <FORECAST_VALUE>6297.66</FORECAST_VALUE>
6     <MEASURED_VALUE>6234</MEASURED_VALUE>
7   </ROW>
8   <ROW>
9     <TIME_STAMP>2023-01-17 01:00</TIME_STAMP>
10    <FORECAST_VALUE>5892.64</FORECAST_VALUE>
11    <MEASURED_VALUE>5886</MEASURED_VALUE>
12  </ROW>
13  <ROW>
14    <TIME_STAMP>2023-01-17 02:00</TIME_STAMP>
15    <FORECAST_VALUE>5475.54</FORECAST_VALUE>
16    <MEASURED_VALUE>5483</MEASURED_VALUE>
17  </ROW>
18  <ROW>
19    <TIME_STAMP>2023-01-17 03:00</TIME_STAMP>
20    <FORECAST_VALUE>5229.33</FORECAST_VALUE>
21    <MEASURED_VALUE>5188</MEASURED_VALUE>
22  </ROW>
23  <ROW>
24    <TIME_STAMP>2023-01-17 04:00</TIME_STAMP>
25    <FORECAST_VALUE>5131.15</FORECAST_VALUE>
26    <MEASURED_VALUE>5063</MEASURED_VALUE>
27  </ROW>
28  <ROW>
29    <TIME_STAMP>2023-01-17 05:00</TIME_STAMP>
30    <FORECAST_VALUE>5307.55</FORECAST_VALUE>
31    <MEASURED_VALUE>5242</MEASURED_VALUE>
32  </ROW>
33  <ROW>
34    <TIME_STAMP>2023-01-17 06:00</TIME_STAMP>
35    <FORECAST_VALUE>5885.29</FORECAST_VALUE>
36    <MEASURED_VALUE>5813</MEASURED_VALUE>
37  </ROW>
38  </ROWS>
```

Korak 2:

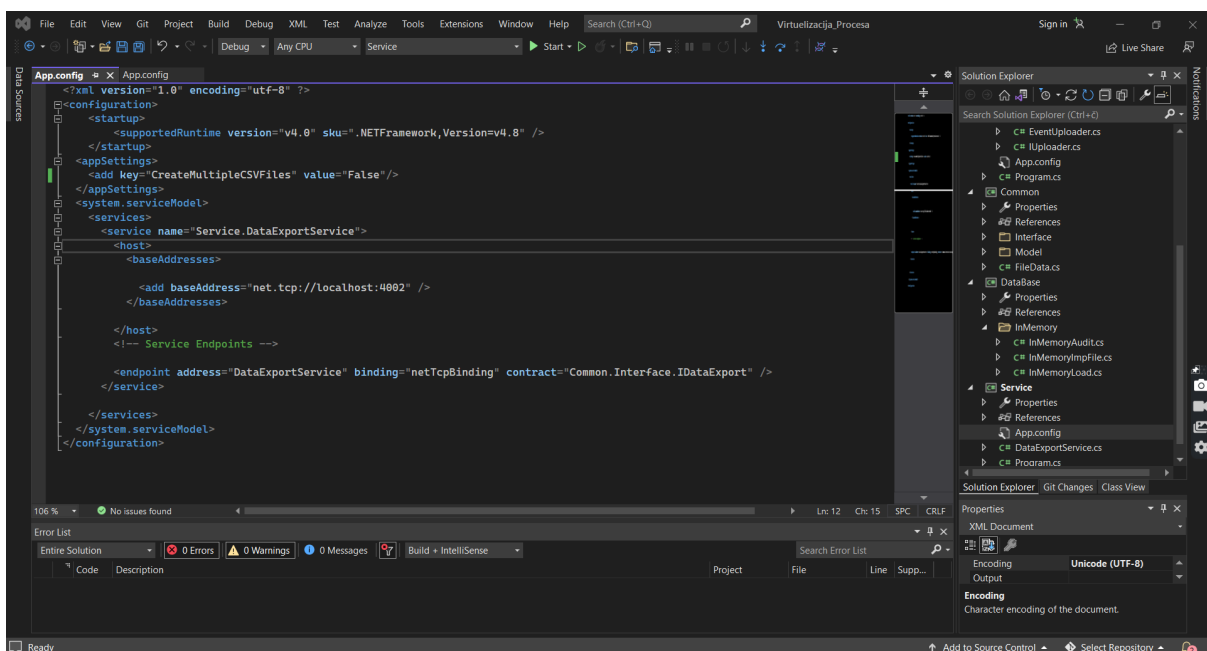


U drugom koraku treba formirati jedan output folder u kome će se čuvati CSV fajlovi koji predstavljaju krajnji rezultat.

### Korak 3:

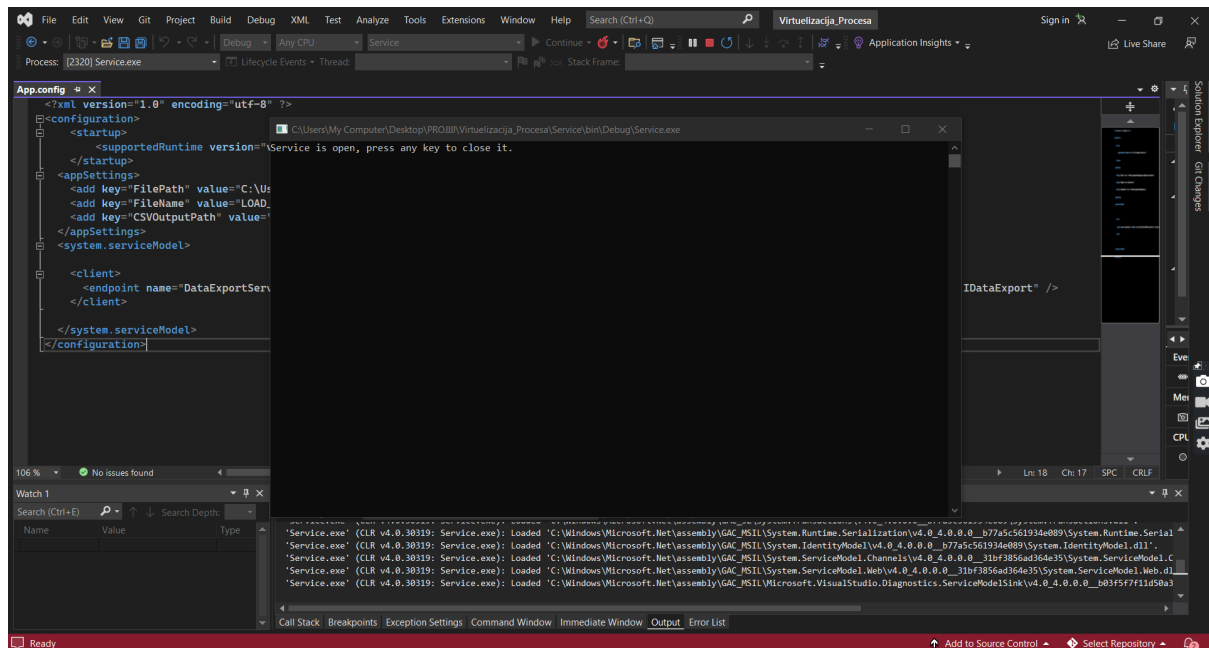


U App Config-u klijenta treba definisati putanju do polaznog XML fajla, kao i putanju do foldera u kome očekujemo da će se nalaziti CSV fajlovi.



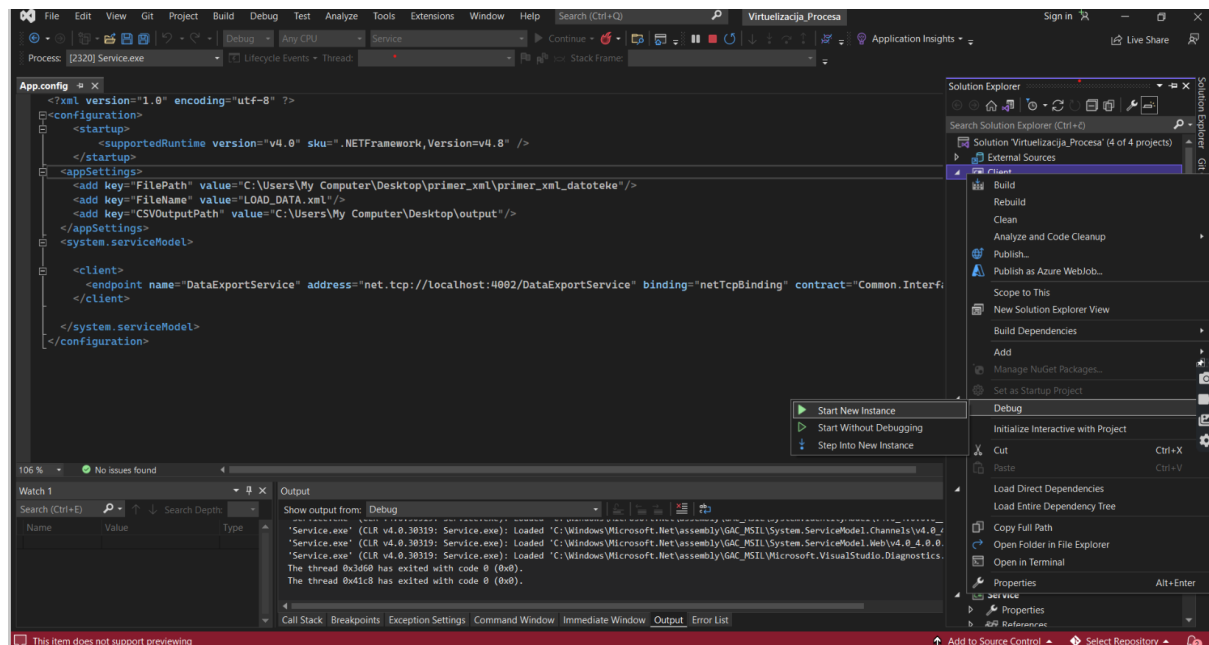
Postavljanjem vrednosti value u App config-u servera, odlučujemo da li želimo da generišemo više fajlova (True) ili samo jedan (False) CSV fajl.

Korak 4:



U sledećem koraku treba pokrenuti server.

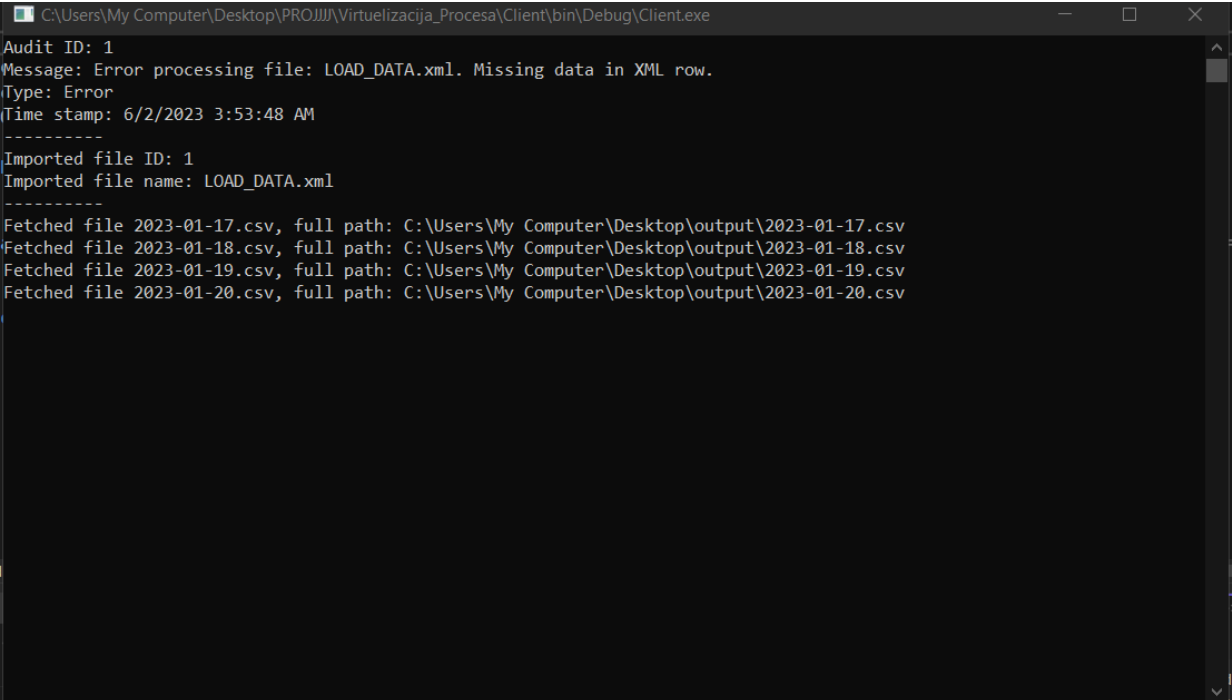
Korak 5:



Nakon uspešnog pokretanja servera, sledeći korak je da pokrenemo klijentsku aplikaciju i uspešno uspostavimo konekciju.



U slučaju da je vrednost value bila False, generisao bi se samo jedan CSV fajl za sve datume, pa bi ispis na konzoli izgledao ovako:



```
C:\Users\My Computer\Desktop\PROJ\Virtualizacija_Procesa\Client\bin\Debug\Client.exe
Audit ID: 1
Message: Error processing file: LOAD_DATA.xml. Missing data in XML row.
Type: Error
Time stamp: 6/2/2023 3:53:48 AM
-----
Imported file ID: 1
Imported file name: LOAD_DATA.xml
-----
Fetched file 2023-01-17.csv, full path: C:\Users\My Computer\Desktop\output\2023-01-17.csv
Fetched file 2023-01-18.csv, full path: C:\Users\My Computer\Desktop\output\2023-01-18.csv
Fetched file 2023-01-19.csv, full path: C:\Users\My Computer\Desktop\output\2023-01-19.csv
Fetched file 2023-01-20.csv, full path: C:\Users\My Computer\Desktop\output\2023-01-20.csv
```

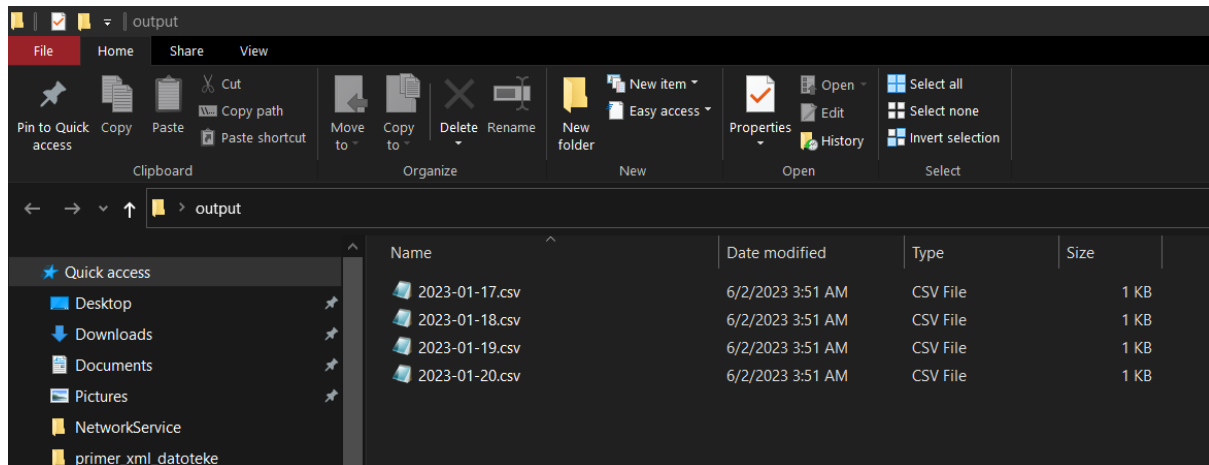
Takođe, kod ovog ispisa možemo videti i šta bi se desilo kada bi XML fajl imao greške. U tom slučaju formira se Audit objekat koji se upisuje u bazu podataka, a na konzoli se ispisuje koji je tip greške.

Iz ispisa vidimo da je u XML fajlu izostavljen neki podatak, na primer izostavljena vrednost TimeStamp u 4. liniji:

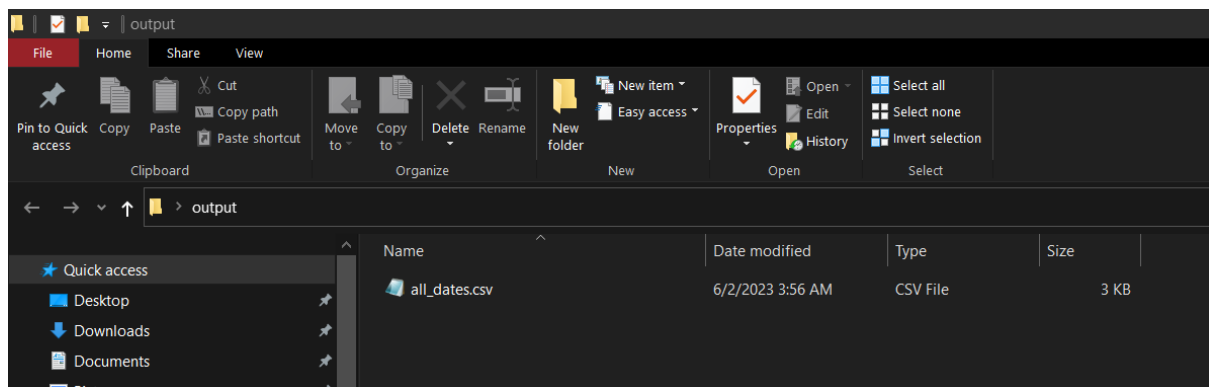


```
File Edit Selection View Go Run Terminal Help
LOAD_DATA.xml X
C: > Users > My Computer > Desktop > primer_xml > primer_xml_datoteke > LOAD_DATA.x
1 <?xml version="1.0" encoding="utf-8" standalone="no"?>
2 <rows>
3   <row>
4     <TIME_STAMP></TIME_STAMP>
5     <FORECAST_VALUE>6297.66</FORECAST_VALUE>
6     <MEASURED_VALUE>6234</MEASURED_VALUE>
7   </row>
8   <row>
9     <TIME_STAMP>2023-01-17 01:00</TIME_STAMP>
10    <FORECAST_VALUE>5892.64</FORECAST_VALUE>
11    <MEASURED_VALUE>5886</MEASURED_VALUE>
12  </row>
13  <row>
14    <TIME_STAMP>2023-01/17 02:00</TIME_STAMP>
15    <FORECAST_VALUE>5475.54</FORECAST_VALUE>
16    <MEASURED_VALUE>5483</MEASURED_VALUE>
17  </row>
18  <row>
19    <TIME_STAMP>2023-01-17 03:00</TIME_STAMP>
20    <FORECAST_VALUE>5229.33</FORECAST_VALUE>
21    <MEASURED_VALUE>5188</MEASURED_VALUE>
22  </row>
23  <row>
24    <TIME_STAMP>2023-01-17 04:00</TIME_STAMP>
25    <FORECAST_VALUE>5131.15</FORECAST_VALUE>
26    <MEASURED_VALUE>5063</MEASURED_VALUE>
27  </row>
28  <row>
29    <TIME_STAMP>2023-01-17 05:00</TIME_STAMP>
30    <FORECAST_VALUE>5307.55</FORECAST_VALUE>
31    <MEASURED_VALUE>5242</MEASURED_VALUE>
32  </row>
33  <row>
34    <TIME_STAMP>2023-01-17 06:00</TIME_STAMP>
35    <FORECAST_VALUE>5885.29</FORECAST_VALUE>
36    <MEASURED_VALUE>5813</MEASURED_VALUE>
37  </row>
38  <row>
```

## Korak 6:



U međuvremenu, na izlaznoj putanji su se formirale CSV datoteke. Slika iznad prikazuje izgled output foldera u slučaju generisanja više fajlova, po jedan za svaki datum.



Ovde možemo videti kako izgleda folder kada je kreiran samo jedan fajl.



## Korak 7:

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W
1	DATE	TIME	FORECAST	MEASURED_VALUE																			
2	1/17/2023	1:00	5892.64	5886																			
3	1/17/2023	2:00	5475.54	5483																			
4	1/17/2023	3:00	5229.33	5188																			
5	1/17/2023	4:00	5131.15	5063																			
6	1/17/2023	5:00	5307.55	5242																			
7	1/17/2023	6:00	5885.29	5813																			
8	1/17/2023	7:00	6420.24	6241																			
9	1/17/2023	8:00	6602.15	6430																			
10	1/17/2023	9:00	6691.66	6582																			
11	1/17/2023	10:00	6678.53	6539																			
12	1/17/2023	11:00	6656.48	6571																			
13	1/17/2023	12:00	6613.96	6565																			
14	1/17/2023	13:00	6505.03	6495																			
15	1/17/2023	14:00	6409.48	6413																			
16	1/17/2023	15:00	6448.59	6411																			
17	1/17/2023	16:00	6797.18	6688																			
18	1/17/2023	17:00	7099.04	6863																			
19	1/17/2023	18:00	7135.79	6926																			
20	1/17/2023	19:00	7084.08	6852																			
21	1/17/2023	20:00	6987.48	6743																			
22	1/17/2023	21:00	6818.97	6577																			
23	1/17/2023	22:00	6730.24	6478																			
24	1/17/2023	23:00	6578.79	6397																			
25	1/18/2023	0:00	6268.79	6254																			
26	1/18/2023	1:00	5838.57	5864																			
27	1/18/2023	2:00	5477.9	5451																			
28	1/18/2023	3:00	5251.9	5161																			
29	1/18/2023	4:00	5176.57	5080																			
30	1/18/2023	5:00	5371.07	5272																			
31	1/18/2023	6:00	5931.22	5846																			
32	1/18/2023	7:00	6412.11	6347																			

Krajnji rezultat su fajlovi u CSV formatu koje otvaramo u Microsoft Excel-u.