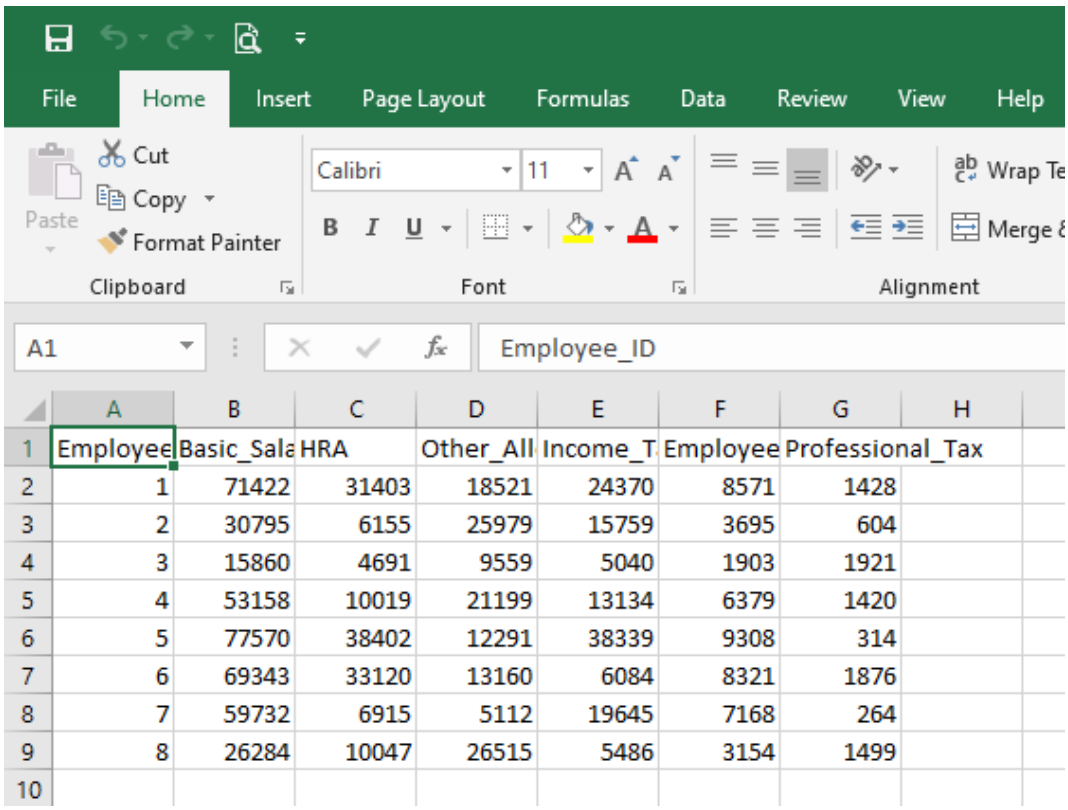
OUTPUT FOR THE CSV FILE OF 2000 EMPLOYEES:

Command Prompt

```
H:\viraj\jee\VJTI\daa>python minmax_salary.py
Using linear Search:
Employee ID with minimum net salary: 267 with ₹14199
Employee ID with maximum net salary: 18 with ₹122082
Using divide and conquer approach:
Employee ID with minimum net salary: 267 with ₹14199
Employee ID with maximum net salary: 18 with ₹122082
```

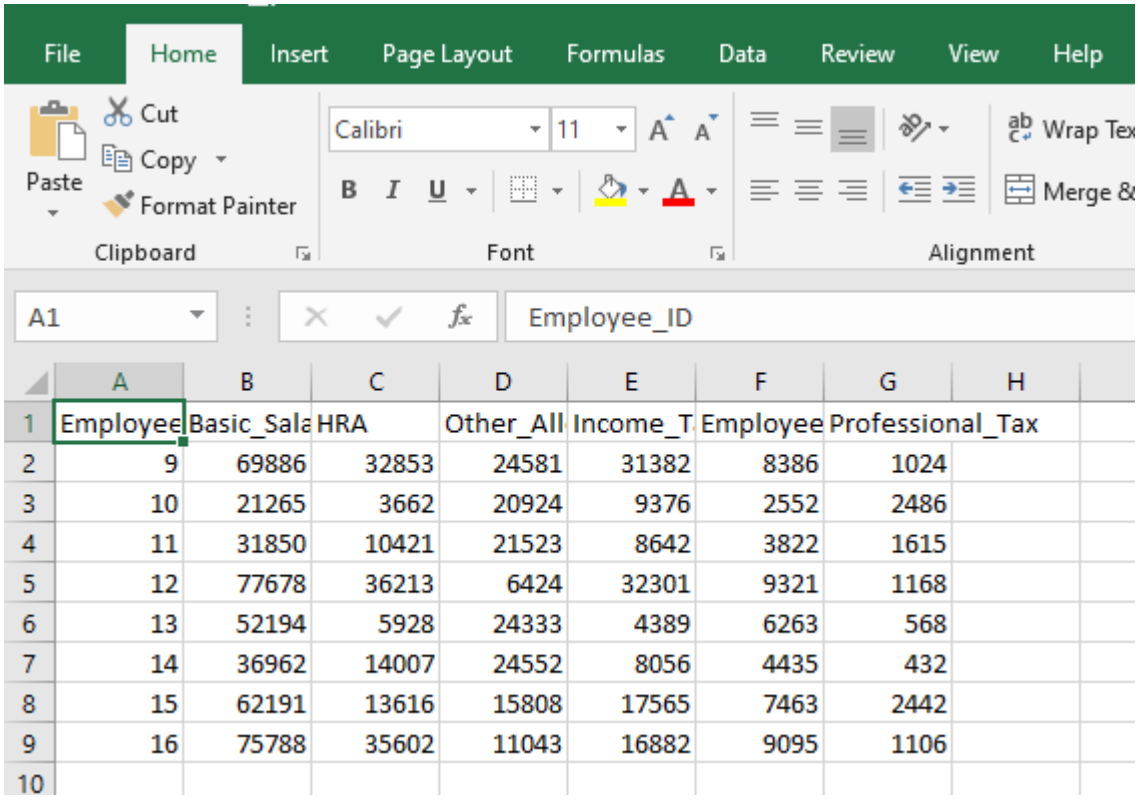
TEST CASE 1:



	A	B	C	D	E	F	G	H
1	Employee	Basic_Sala	HRA	Other_All	Income_T	Employee	Professional_Tax	
2	1	71422	31403	18521	24370	8571	1428	
3	2	30795	6155	25979	15759	3695	604	
4	3	15860	4691	9559	5040	1903	1921	
5	4	53158	10019	21199	13134	6379	1420	
6	5	77570	38402	12291	38339	9308	314	
7	6	69343	33120	13160	6084	8321	1876	
8	7	59732	6915	5112	19645	7168	264	
9	8	26284	10047	26515	5486	3154	1499	
10								

```
Processing file: employee_valid_1.csv
Linear Scan -> Min: ₹23167.00 (ID: 3), Max: ₹101218.00 (ID: 6)
Divide and conquer  -> Min: ₹23167.00 (ID: 3), Max: ₹101218.00 (ID: 6)
```

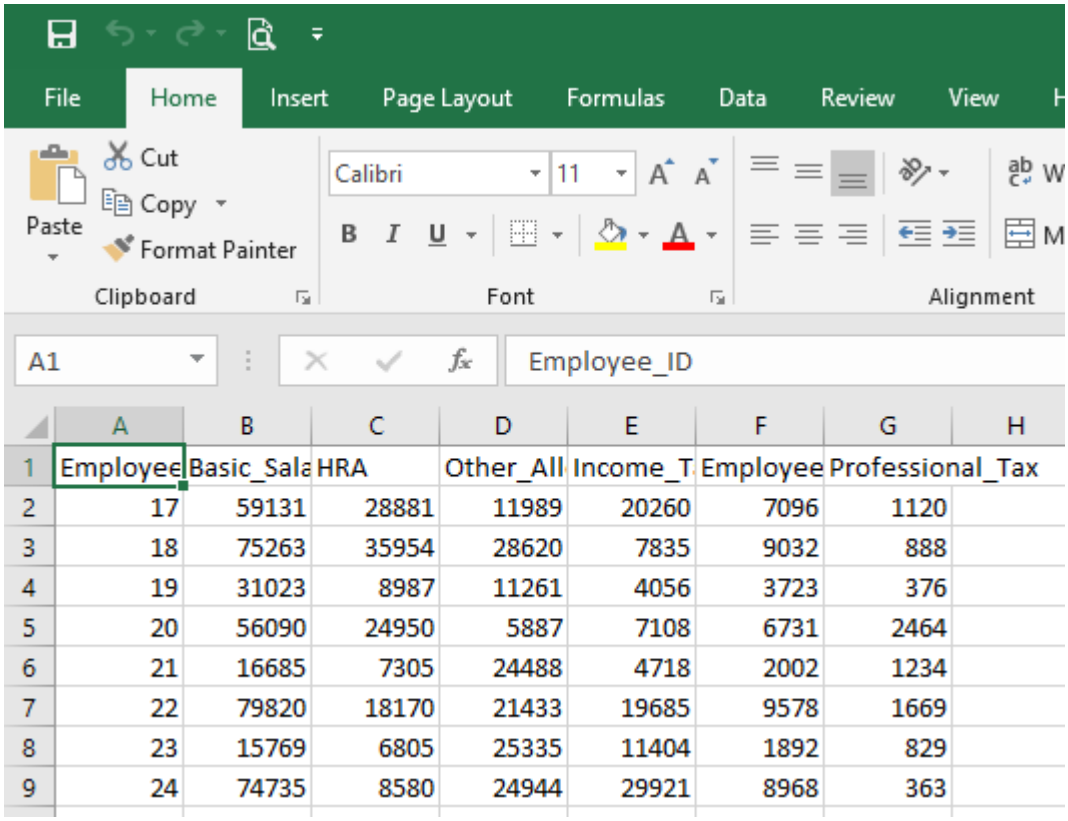
TEST CASE 2:



	A	B	C	D	E	F	G	H
1	Employee	Basic_Sala	HRA	Other_All	Income_T	Employee	Professional_Tax	
2	9	69886	32853	24581	31382	8386	1024	
3	10	21265	3662	20924	9376	2552	2486	
4	11	31850	10421	21523	8642	3822	1615	
5	12	77678	36213	6424	32301	9321	1168	
6	13	52194	5928	24333	4389	6263	568	
7	14	36962	14007	24552	8056	4435	432	
8	15	62191	13616	15808	17565	7463	2442	
9	16	75788	35602	11043	16882	9095	1106	
10								

```
Processing file: employee_valid_2.csv
Linear Scan -> Min: ₹33923.00 (ID: 10), Max: ₹96456.00 (ID: 16)
Divide and conquer  -> Min: ₹33923.00 (ID: 10), Max: ₹96456.00 (ID: 16)
```

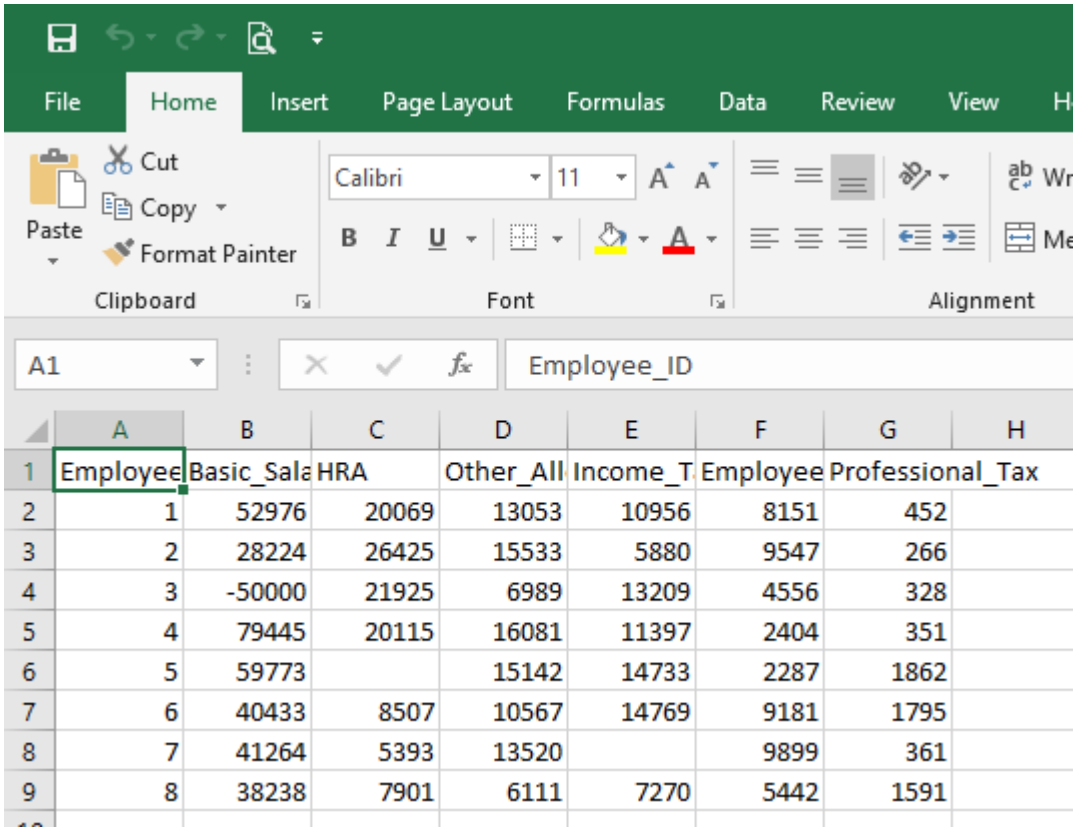
TEST CASE 3:



	A	B	C	D	E	F	G	H
1	Employee	Basic_Sala	HRA	Other_All	Income_T	Employee	Professional_Tax	
2	17	59131	28881	11989	20260	7096	1120	
3	18	75263	35954	28620	7835	9032	888	
4	19	31023	8987	11261	4056	3723	376	
5	20	56090	24950	5887	7108	6731	2464	
6	21	16685	7305	24488	4718	2002	1234	
7	22	79820	18170	21433	19685	9578	1669	
8	23	15769	6805	25335	11404	1892	829	
9	24	74735	8580	24944	29921	8968	363	

```
Processing file: employee_valid_3.csv
Linear Scan -> Min: ₹34613.00 (ID: 23), Max: ₹122970.00 (ID: 18)
Divide and conquer  -> Min: ₹34613.00 (ID: 23), Max: ₹122970.00 (ID: 18)
```

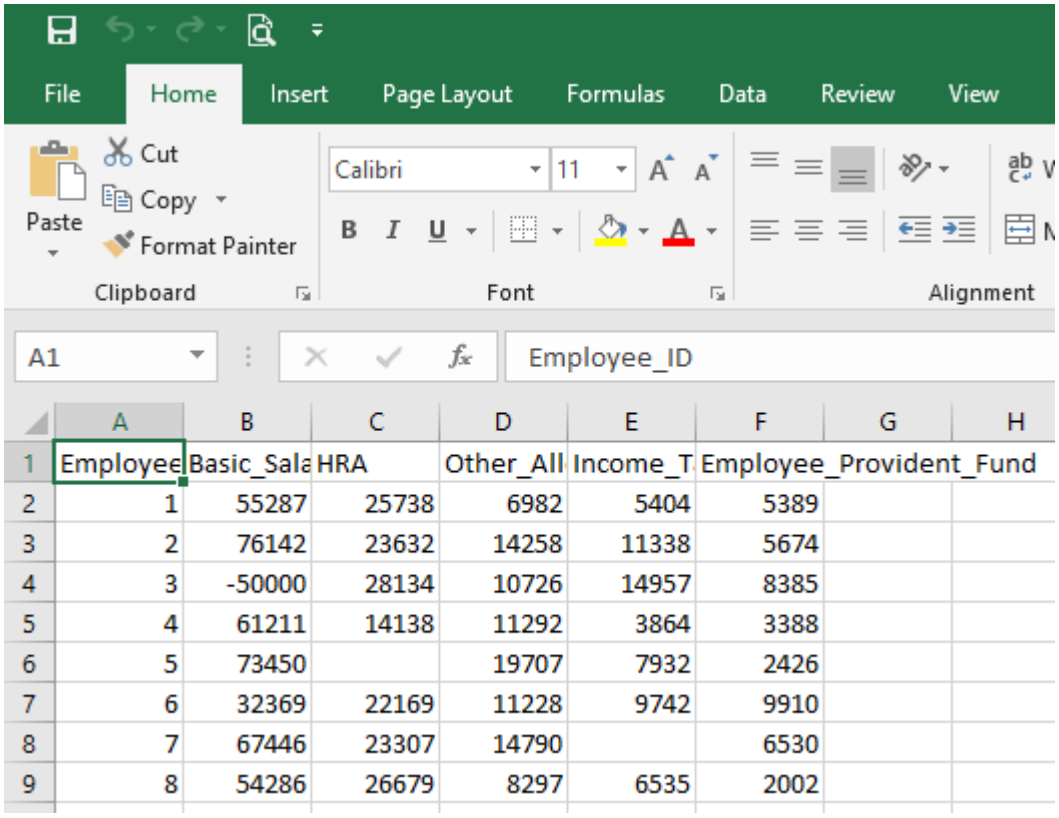
TEST CASE 4:



	A	B	C	D	E	F	G	H
1	Employee	Basic_Sala	HRA	Other_All	Income_T	Employee	Professional_Tax	
2	1	52976	20069	13053	10956	8151	452	
3	2	28224	26425	15533	5880	9547	266	
4	3	-50000	21925	6989	13209	4556	328	
5	4	79445	20115	16081	11397	2404	351	
6	5	59773		15142	14733	2287	1862	
7	6	40433	8507	10567	14769	9181	1795	
8	7	41264	5393	13520		9899	361	
9	8	38238	7901	6111	7270	5442	1591	

```
Processing file: employee_invalid_1.csv
Error: Negative values found in column 'Basic_Salary' in employee_invalid_1.csv
Error: Empty cells found in column 'HRA' in employee_invalid_1.csv
Error: Empty cells found in column 'Income_Tax' in employee_invalid_1.csv
Skipping salary calculations due to data errors.
```

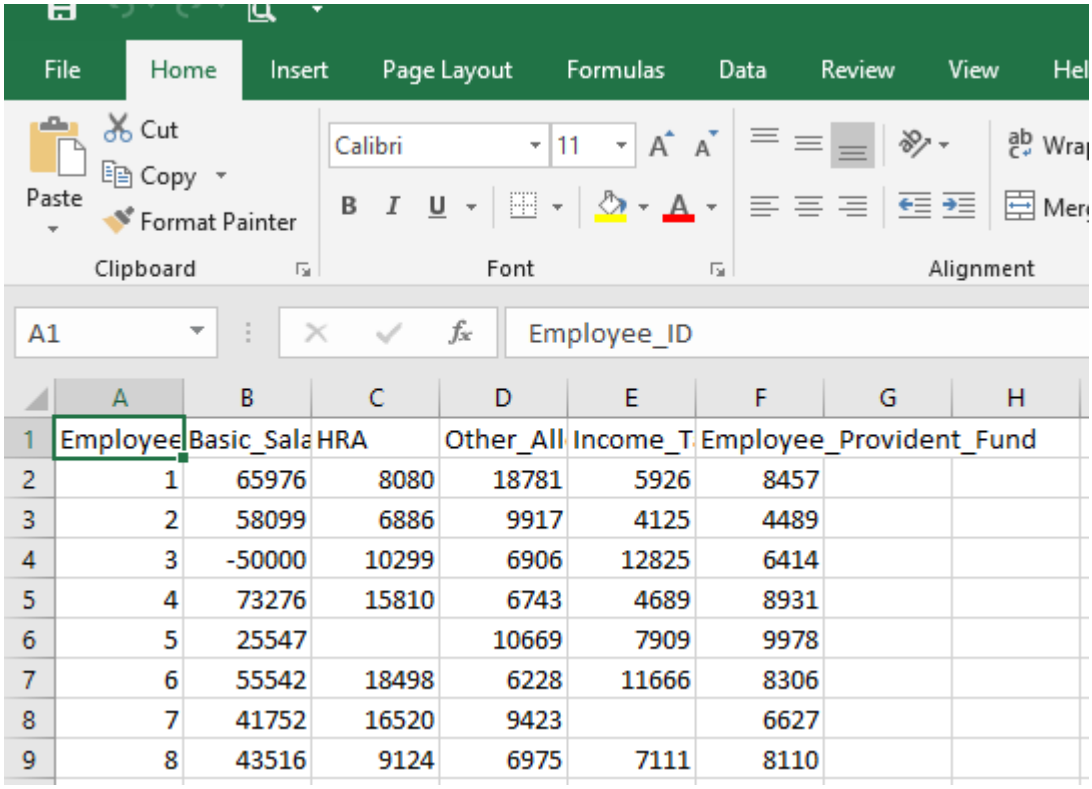
TEST CASE 5:



	A	B	C	D	E	F	G	H
1	Employee	Basic_Sala	HRA	Other_All	Income_T	Employee_Provident_Fund		
2	1	55287	25738	6982	5404	5389		
3	2	76142	23632	14258	11338	5674		
4	3	-50000	28134	10726	14957	8385		
5	4	61211	14138	11292	3864	3388		
6	5	73450		19707	7932	2426		
7	6	32369	22169	11228	9742	9910		
8	7	67446	23307	14790		6530		
9	8	54286	26679	8297	6535	2002		

```
Processing file: employee_invalid_2.csv
Error: Negative values found in column 'Basic_Salary' in employee_invalid_2.csv
Error: Empty cells found in column 'HRA' in employee_invalid_2.csv
Error: Empty cells found in column 'Income_Tax' in employee_invalid_2.csv
Skipping salary calculations due to data errors.
```

TEST CASE 6:



	A	B	C	D	E	F	G	H
1	Employee	Basic_Sala	HRA	Other_All	Income_T	Employee_Provident_Fund		
2	1	65976	8080	18781	5926	8457		
3	2	58099	6886	9917	4125	4489		
4	3	-50000	10299	6906	12825	6414		
5	4	73276	15810	6743	4689	8931		
6	5	25547		10669	7909	9978		
7	6	55542	18498	6228	11666	8306		
8	7	41752	16520	9423		6627		
9	8	43516	9124	6975	7111	8110		

```
Processing file: employee_invalid_3.csv
Error: Negative values found in column 'Basic_Salary' in employee_invalid_3.csv
Error: Empty cells found in column 'HRA' in employee_invalid_3.csv
Error: Empty cells found in column 'Income_Tax' in employee_invalid_3.csv
Skipping salary calculations due to data errors.
```