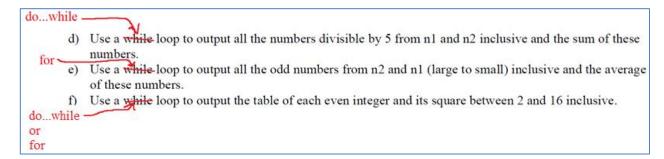
Do not use any data structures such as array or ArrayList to store data.

Do not write other methods, basically write the code in the main () method. Do not write OOP.

1. Rewrite the first program in Assignment 5 so that do...while loop and for loop are used. [6 points]



2. The data file MLB_Stats.txt contains the MLB American League selected player stats in 2022 regular season. It includes the player name, team, game played, at bats, runs, hits, and home runs.

[The data file was downloaded from Yahoo Sport on 9/18/2022]

MLB_Stats.txt

	Games Player		At Bats	Runs	Hits	Home Runs
		1	- 1	- 1		
Player	Team	G	AB	Ŕ	Н	HR
Aaron_Judge	NYY	141	520	119	162	57
Adolis_Garcia	TEX	140	549	80	138	25
Alejandro_Kirk	TOR	126	424	56	125	13
Alex_Bregman	HOU	140	494	87	132	21
Alex_Verdugo	BOS	138	538	66	151	9
Amed_Rosario	CLE	138	575	76	163	10
Andres_Gimenez	CLE	132	438	59	131	16
Andrew_Benintendi	NYY	126	461	54	140	5
More players						

Write a program that reads the data from the data file, calculates the batting average (hits / atBats) for each player, then stores the data and results in the output file (MLB_Result.txt). [14 points]

The program also inputs the favorite team, and then counts the number of players, calculates the total home runs and average batting average, and finds the player with the highest home runs for your favorite team. The results should also be stored in the output file. [Extra Credit: 5 points]

Sample Run:

```
Which team is your favorite team? HOU

Done. Please check the output file for the result.

----jGRASP: operation complete.
```

MLB_Result.txt

Ιг	─ Aaron Judge	NYY	141	520	119	162	57	0.312
	Adolis Garcia	TEX	140	549	80	138	25	0.251
	Alejandro Kirk	TOR	126	424	56	125	13	0.295
	Alex Bregman	HOU	140	494	87	132	21	0.267
	Alex Verdugo	BOS	138	538	66	151	9	0.281
	Amed Rosario	CLE	138	575	76	163	10	0.283
	Andres Gimenez	CLE	132	438	59	131	16	0.299
	Andrew Benintendi	NYY	126	461	54	140	5	0.304
	Andrew Vaughn	CWS	121	465	58	134	16	0.288
	Anthony Santander	BAL	136	515	69	129	27	0.250
	Austin Hays	BAL	128	478	59	119	15	0.249
	Bo Bichette	TOR	144	591	84	167	24	0.283
	Bobby Witt Jr.	KC	135	527	73	131	20	0.249
	Carlos Correa	MIN	121	462	65	129	21	0.279
	Cedric Mullins	BAL	140	544	80	144	14	0.265
	Corey Seager	TEX	138	542	82	132	30	0.244
	DJ LeMahieu	NYY	120	451	74	118	12	0.262
	Elvis Andrus	CWS	133	468	59	120	14	0.256
	George Springer	TOR	119	457	78	119	21	0.260
	Gio Urshela	MIN	127	441	51	122	12	0.277
	Glevber Torres	NYY	129	485	65	119	21	0.245
	Isiah Kiner-Falefa	NYY	129	437	63	117	3	0.268
	J.D. Martinez	BOS	124	478	64	129	11	0.270
	J.P. Crawford	SEA	130	471	53	118	6	0.251
	Jeremy Pena	HOU	121	466	61	116	18	0.249
	Jose Ábreu	CWS	144	553	79	171	15	0.309
	Jose Altuve	HOU	127	482	86	138	24	0.286
	Jose Ramirez	CLE	141	537	80	150	28	0.279
	Julio Rodriguez	SEA	126	491	80	137	27	0.279
	Kyle Tucker	HOU	135	493	67	129	28	0.262
	Lourdes Gurriel Jr.	TOR	121	453	52	132	5	0.291
	Luis Arraez	MIN	131	497	80	157	8	0.316
	Marcus Semien	TEX	144	590	91	148	23	0.251
	Nathaniel Lowe	TEX	140	532	67	165	25	0.310
	Rafael Devers	BOS	126	501	76	144	26	0.287
	Randy Arozarena	ТВ	139	533	66	142	19	0.266
	Ryan Mountcastle	BAL	129	497	57	121	22	0.243
	Santiago Espinal	TOR	132	442	50	119	7	0.269
	Sean Murphy	OAK	134	486	63	124	18	0.255
	Shohei Ohtani	LAA	140	519	82	138	34	0.266
	Steven Kwan	CLE	132	498	75	144	4	0.289
	Taylor Ward	LAA	118	430	62	116	18	0.270
	Teoscar Hernandez	TOR	116	439	56	113	20	0.257
	Trey Mancini	HOU	129	474	55	120	18	0.253
	Ty France	SEA	124	485	55	132	19	0.272
	Vladimir Guerrero Jr.	TOR	145	577	82	161	28	0.279
	Xander Bogaerts	BOS	136	508	81	160	14	0.315
	Yandy Diaz	ТВ	131	457	68	134	9	0.293
	Yordan Alvarez	HOU	121	422	89	128	37	0.303
L	— Yuli Gurriel	HOU	132	493	50	120	8	0.243
			-				-	

Your favourite team HOU:

Total Players: 7 Total Home Runs: 154

Average Batting Average: 0.266

Yordan Alvarez had the most home run: 37.

- Use **printf** or **String.format** method to format the output with alignment, spacing, and decimal places.
- Use java File, FileWriter, PrintWriter objects for File IO. Do not use other types of I/O objects.
- Do not use **try** and **catch** to handle exceptions

<u>Due:</u> Wednesday, 10/19/22

- To receive full credit, the assignment must be submitted by the due date.
- Late submissions will incur a penalty of 5% per day.
- Upload the source code to D2L

* Date: Date * Assignment: Assig	name of completion nment # NameOfSourceCode.java orogram description	Up to 5% deduction
	Id be written with the appropriate form and style. Use ine, and comments to make the source code easy to read.	Up to 5% deduction
•	onvention and meaningful names to name the classes, methods, and other identifiers in the programs.	Up to 5% deduction
Format the output of	ppropriately	Up to 5% deduction