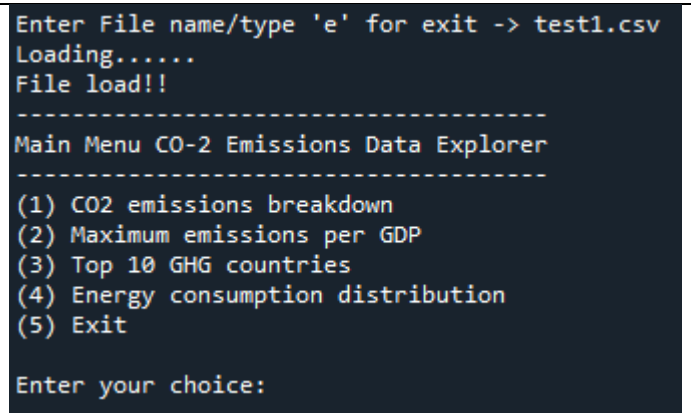
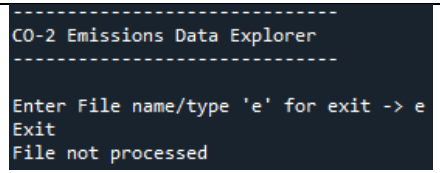
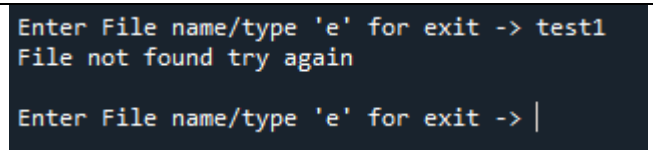
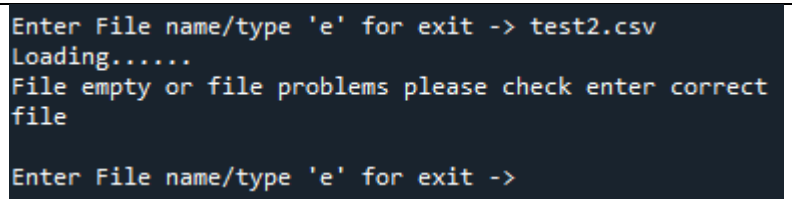
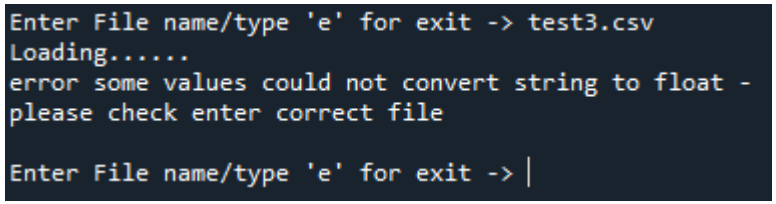
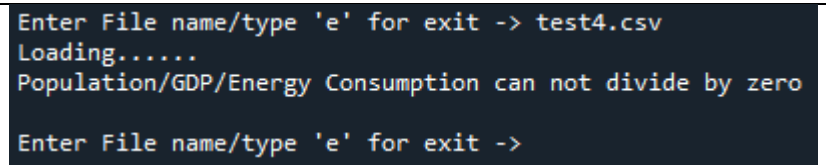
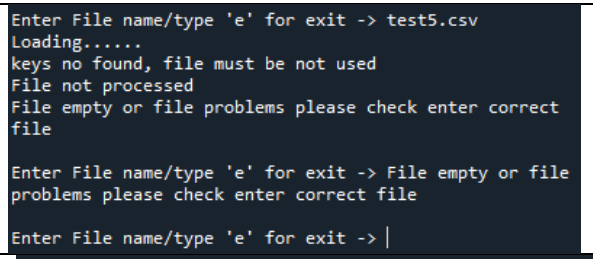
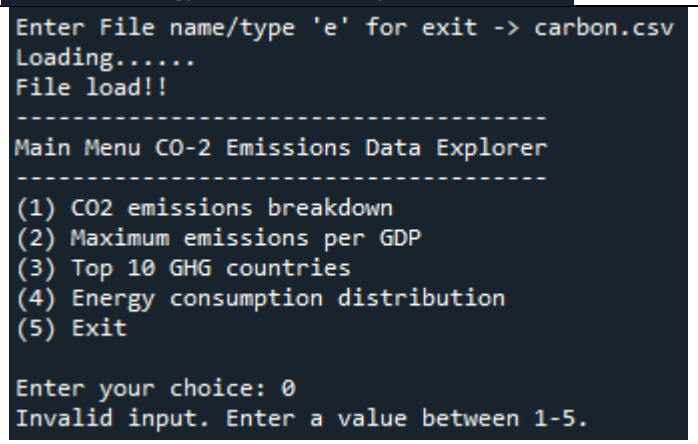
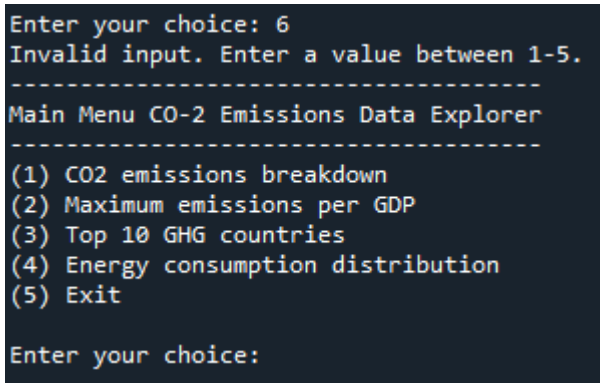
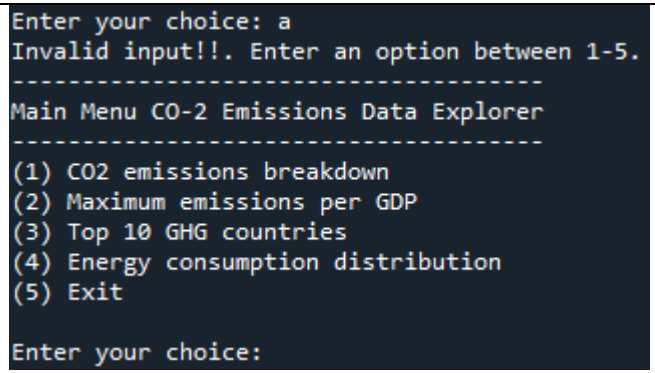
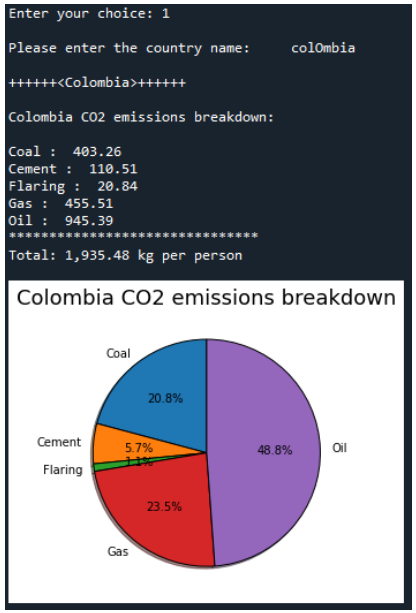
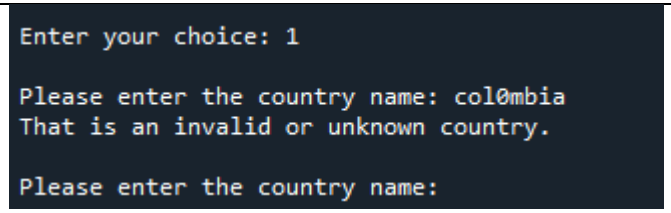
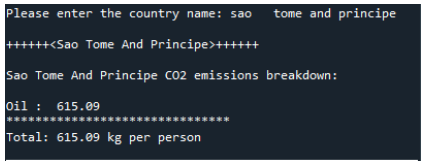
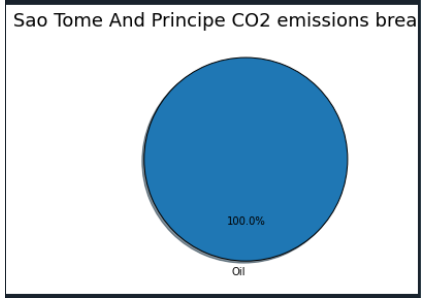
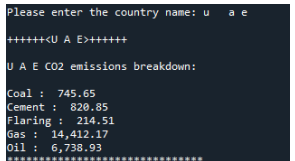
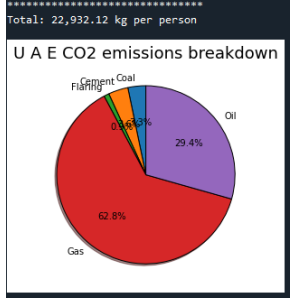
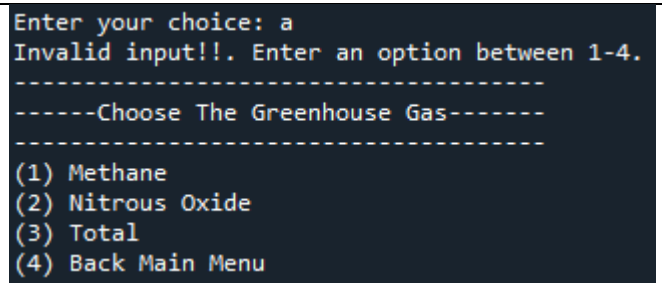
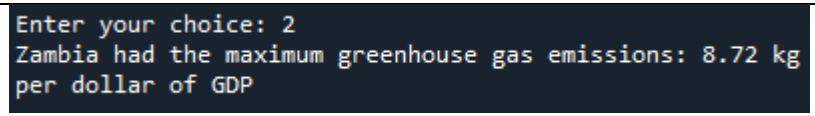
Task 1: Black box testing

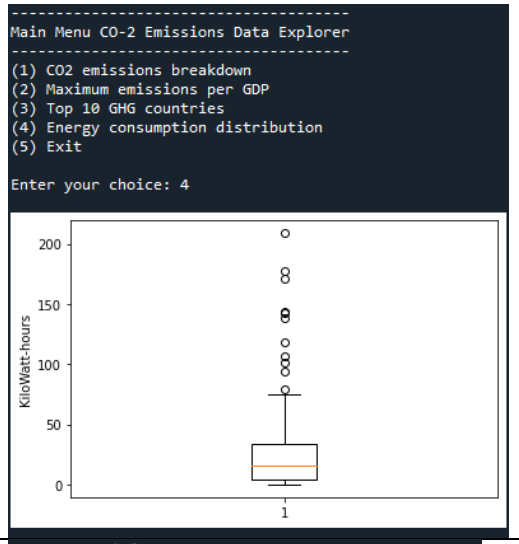
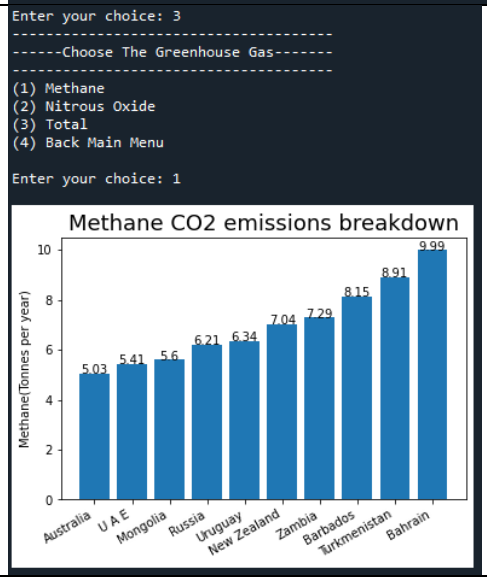
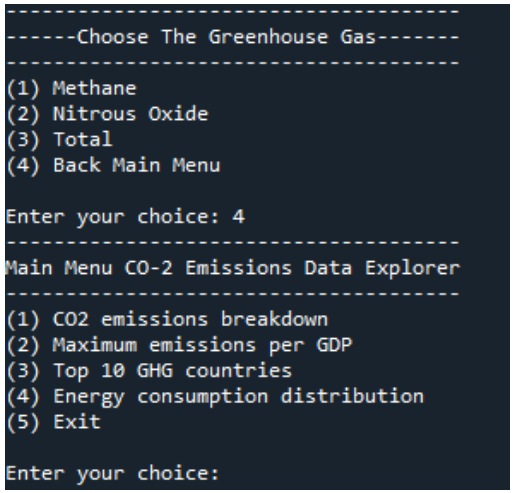
Test Data Table				
Case	**Test data**	**The reason it was selected**	**The output expected**	**The screenshot of the actual output**
1	test1.csv	Normal use to open the file and processes	A prompt message that the file is loading and when it is done! Say "File Load!!" and show the “Main Menu”	
2	e	Normal use exit during the stage of loading the file (optional)	A prompt message “Exit /file not processed”	
3	test1	Normal use name of the file but not include the extension	Prompt “File not found try again” prompt enter name user	
4	test2.csv	Normal Use the file does not contain any data (empty data)	Raise exception “File empty or file problems please check to enter correct file”	

5	test3.csv	Normal use – files contain data that can not be converted into a number	Raise exception “error some values could not convert string to float - please check to enter correct file”	
6	test4.csv	Normal use – file containing values that can not be used as divisors can generate an error	Raise exception ” Population/GDP/Energy Consumption can not divide by zero”	
7	test5.csv	Normal use – the file contains header but not values	Raise exception ” keys no found” the file can not be load if key are empty or ‘0’	
8	Main Menu option (0)	Boundary Condition - it's the lowest outrange	error message	

9	Main Menu option (6)	Boundary Condition - it's the highest outrange	error message	
10	a	Improper usage - it is a character the program just accepts integers	error message	

11	Input option 1 – “ colOmbia “	Normal usage – the string contains the name with some spaces the program can handle	Show results	
12	Input option 1 – “ col0mbia “	Improper usage - it is a character with the number “0” the program just compares the exact name	Error invalid input / unknown country	

13	Input option 1 – “sao tome and principe “ or “ u a e ”	Normal use – strings with more than 1 word – extra space handles	Show results	   
14	Input option 3 - a	Improper usage - it is a character the program just accepts integers	Invalid input message	
15	Option 2	Normal use – request option 2	Show results	

16	Option 4	Normal use – request option 4		
17	Option 3- submenu 1	Normal use – request option 4	Show results and plot	

18	Option 3 - submenu 4	Normal use – exit to the main menu	Show the main menu