# Title: With the help of disk monitoring identify the read and write process having length>5.

### **Objective:**

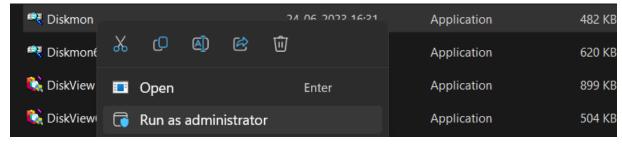
The objective of this project is to utilize disk monitoring software to identify read and write processes that have a length greater than 5. By analyzing the data collected through disk monitoring, we aim to identify processes with significant read and write operations on the disk.

# **Requirements:**

Sysinternal suite Diskmon.exe

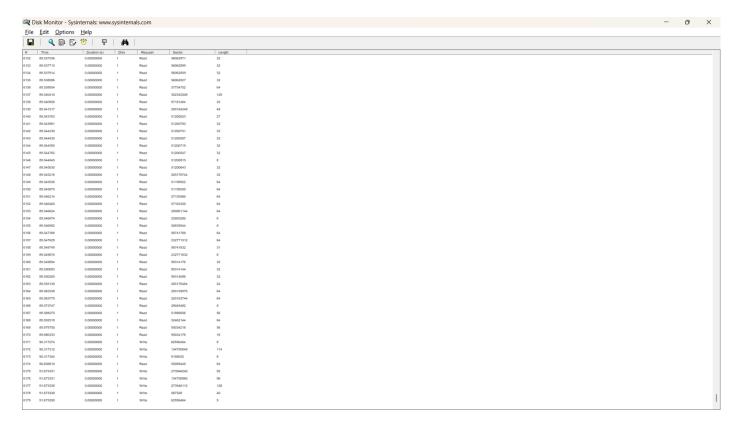
# **Procedure/Experiment Steps:**

- 1. Download Disk Monitor:
  - a. Open a web browser.
  - b. Visit the official Microsoft website.
  - c. Search for "Disk Monitor" or Sysinternal suite and navigate to the official download page.
  - d. Download the appropriate version that compatible with your Windows operating system.
  - e. Save the downloaded file.
- 2. Launch Disk Monitor:
  - a. Navigate to the installation location of Disk Monitor.
  - b. Double-click on the "Diskmon.exe" file to launch Disk Monitor.



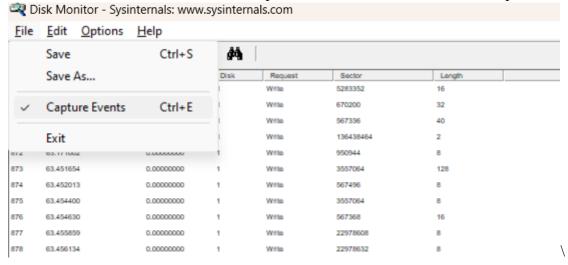
c. It will ask for the installation for the first time only.

- 3. Explore Disk Monitor Interface:
  - a. The Disk Monitor interface

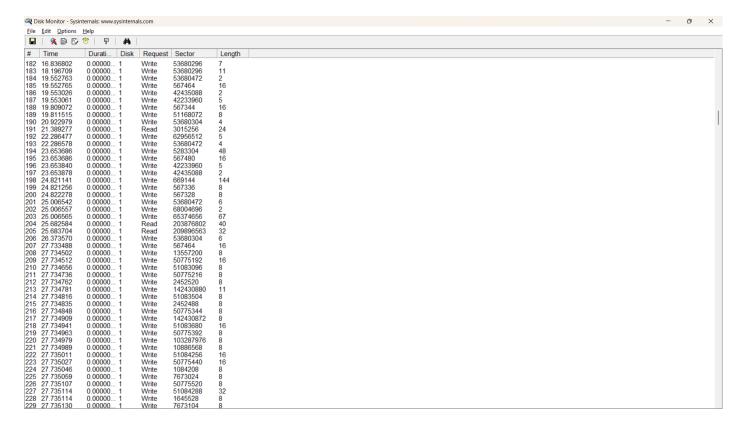


b. It automatic start capture the logs and data

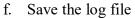
c. Go to file and click on capture Event or Press CTRL + E to stop

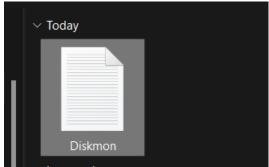


d. As we can see here all event in Read and write mode

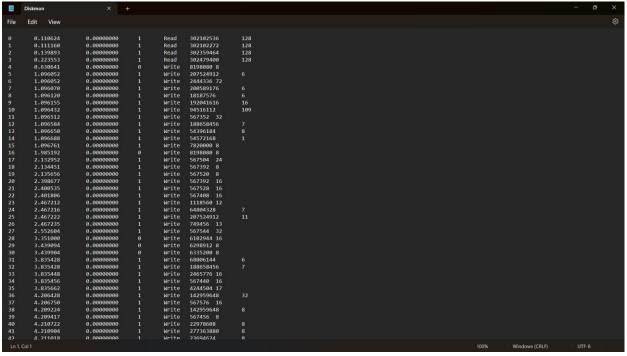


e. We can see Time, Duration, Disk, Request, Sector, Length

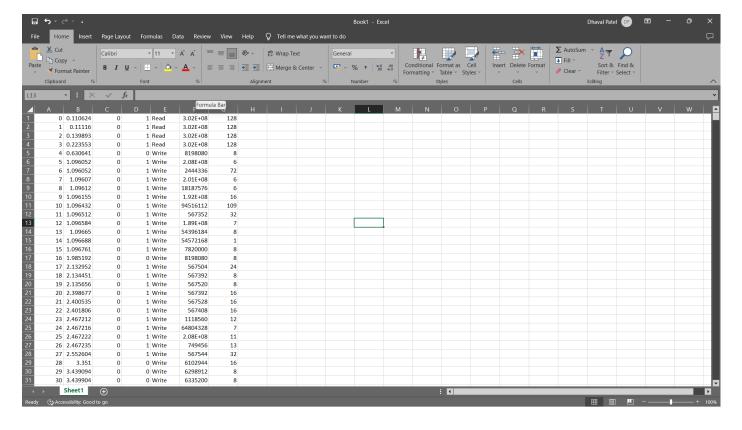




g. Locket the file copy the data



h. open in excel



i. Analyze the result

# **Result:**

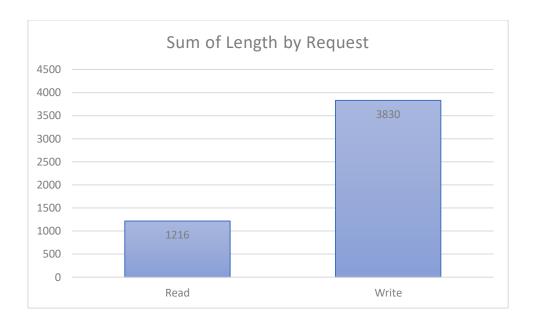
• Read and Write Process with length >5.

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#	Time	Duration	Disk	Request	Sector	Length
85	24.997138	0	1	Write	64804568	7
1	8.642404	0	1	Write	101392440	8
17	10.544672	0	1	Write	567392	8
20	10.545294	0	1	Write	47474184	8
21	10.545326	0	1	Write	47474192	8
24	10.546761	0	1	Write	47474184	8
25	10.546978	0	1	Write	47474192	8
32	10.5489	0	1	Write	567520	8
33	10.549217	0	1	Write	567400	8
35	10.551006	0	1	Write	567528	8
37	10.551166	0	1	Write	567400	8
39	10.551573	0	1	Write	567528	8
40	10.551721	0	1	Write	80871376	8
41	10.551818	0	1	Write	80871384	8
42	10.552262	0	1	Write	567400	8
43	10.552373	0	1	Write	24583232	8
44	10.552491	0	1	Write	24583240	8
45	10.552678	0	1	Write	567528	8
47	10.55316	0	1	Write	24583232	8
48	10.553281	0	1	Write	24583240	8
49	10.553434	0	1	Write	567536	8
50	10.553618	0	1	Write	47474192	8
51	10.55377	0	1	Write	47474200	8
52	10.553827	0	1	Write	47474208	8
53	10.554253	0	1	Write	567408	8

54	10.554363	0	1	Write	24583232	8
55	10.554487	0	1	Write	24583240	8
56	10.554652	0	1	Write	567536	8
59	10.566633	0	1	Write	567544	8
70	18.891933	0	1	Write	567344	8
75	19.5396	0	1	Write	50971336	8
76	19.539738	0	1	Write	50971576	8
78	19.53999	0	1	Write	50971656	8
79	19.540114	0	1	Write	50974832	8
87	27.718742	0	1	Write	64804568	8
96	34.193014	0	1	Write	567424	8
104	35.889885	0	1	Write	567464	8
105	35.8928	0	1	Write	50984512	8
106	35.892826	0	1	Write	18045224	8
108	35.892883	0	1	Write	65642656	8
109	35.892938	0	1	Write	8168040	8
110	35.893005	0	1	Write	148436648	8
111	35.893094	0	1	Write	51008976	8
112	35.893142	0	1	Write	8167600	8
113	35.893181	0	1	Write	65655000	8
114	35.893187	0	1	Write	50775480	8
115	35.893206	0	1			8
				Write	51009288	
116	35.893242	0	1	Write	27761576	8
117	35.893254	0		Write	17904984	
118	35.893274	0	1	Write	50775568	8
120	35.893322	0	1	Write	29124384	8
121	35.893325	0	1	Write	27761712	8
122	35.893357	0	1	Write	51009440	8
124	35.893379	0	1	Write	27761792	8
126	35.893414	0	1	Write	51009488	8
127	35.893462	0	1	Write	50775808	8
128	35.893488	0	1	Write	27761344	8
129	35.893507	0	1	Write	51009896	8
131	35.893536	0	1	Write	50776736	8
132	35.893568	0	1	Write	27761488	8
133	35.893658	0	1	Write	50776784	8
136	35.893722	0	1	Write	3683248	8
137	35.893734	0	1	Write	50776960	8
138	35.89377	0	1	Write	29124032	8
139	35.893789	0	1	Write	51010448	8
140	35.893805	0	1	Write	3683272	8
141	35.893821	0	1	Write	50777424	8
143	35.893853	0	1	Write	51074312	8
144	35.893872	0	1	Write	1814872	8
145	35.893885	0	1	Write	83221488	8
146	35.893904	0	1	Write	29124088	8
147	35.89392	0	1	Write	51078792	8
148	35.893939	0	1	Write	1645528	8
149	35.893958	0	1	Write	83226456	8
151	35.893994	0	1	Write	51085920	8
152	35.894019	0	1	Write	872208	8

153   35.894029   0   1   Write   5077382     156   35.894096   0   1   Write   505871     157   35.894112   0   1   Write   5077384     159   35.894154   0   1   Write   5116807     160   35.894176   0   1   Write   1654860     163   35.894384   0   1   Write   10328797     164   35.894384   0   1   Write   20048597     167   35.894547   0   1   Write   108420     168   35.894582   0   1   Write   20048940     169   35.894621   0   1   Write   5077398     171   35.894832   0   1   Write   5077406     175   35.895002   0   1   Write   27992515     176   35.895027   0   1   Write   5077416     178   35.895098   0   1   Write   8046934     179   35.895114	2 8 0 8 2 8 0 8 6 8 6 8 8 8 0 8 4 8 2 8 4 8 2 8
157     35.894112     0     1     Write     5077384       159     35.894154     0     1     Write     5116807       160     35.894176     0     1     Write     1654860       163     35.894384     0     1     Write     10328797       164     35.894406     0     1     Write     20048597       167     35.894547     0     1     Write     108420       168     35.894582     0     1     Write     20048940       169     35.894621     0     1     Write     5077398       171     35.894832     0     1     Write     28065063       173     35.89489     0     1     Write     5077406       175     35.895002     0     1     Write     4355463       177     35.89505     0     1     Write     5077416       178     35.895098     0     1     Write     8046934       179     35.895114 <td>0 8 2 8 0 8 6 8 6 8 8 8 8 8 0 8 4 8 2 8 4 8 2 8</td>	0 8 2 8 0 8 6 8 6 8 8 8 8 8 0 8 4 8 2 8 4 8 2 8
159     35.894154     0     1     Write     5116807       160     35.894176     0     1     Write     1654860       163     35.894384     0     1     Write     10328797       164     35.894406     0     1     Write     20048597       167     35.894547     0     1     Write     108420       168     35.894582     0     1     Write     20048940       169     35.894621     0     1     Write     5077398       171     35.894832     0     1     Write     28065063       173     35.895002     0     1     Write     5077406       175     35.895002     0     1     Write     27992515       176     35.895027     0     1     Write     5077416       178     35.895098     0     1     Write     8046934       179     35.895114     0     1     Write     2478618       180     35.89513<	2 8 0 8 6 8 6 8 8 8 0 8 4 8 2 8 4 8 2 8
160   35.894176   0   1   Write   1654860     163   35.894384   0   1   Write   10328797     164   35.894406   0   1   Write   20048597     167   35.894547   0   1   Write   108420     168   35.894582   0   1   Write   20048940     169   35.894621   0   1   Write   5077398     171   35.894832   0   1   Write   28065063     173   35.89489   0   1   Write   5077406     175   35.895002   0   1   Write   27992515     176   35.895027   0   1   Write   4355463     177   35.89505   0   1   Write   5077416     178   35.895098   0   1   Write   8046934     179   35.895114   0   1   Write   2478618     180   35.89513   0   1   Write   5077423	0 8 6 8 6 8 8 8 0 8 4 8 2 8 4 8 2 8
163   35.894384   0   1   Write   10328797     164   35.894406   0   1   Write   20048597     167   35.894547   0   1   Write   108420     168   35.894582   0   1   Write   20048940     169   35.894621   0   1   Write   5077398     171   35.894832   0   1   Write   28065063     173   35.89489   0   1   Write   5077406     175   35.895002   0   1   Write   27992515     176   35.895027   0   1   Write   4355463     177   35.89505   0   1   Write   5077416     178   35.895098   0   1   Write   8046934     179   35.895114   0   1   Write   2478618     180   35.89513   0   1   Write   5077423	6 8 6 8 8 8 0 8 4 8 2 8 4 8 2 8
164   35.894406   0   1   Write   20048597     167   35.894547   0   1   Write   108420     168   35.894582   0   1   Write   20048940     169   35.894621   0   1   Write   5077398     171   35.894832   0   1   Write   28065063     173   35.89489   0   1   Write   5077406     175   35.895002   0   1   Write   27992515     176   35.895027   0   1   Write   4355463     177   35.89505   0   1   Write   5077416     178   35.895098   0   1   Write   8046934     179   35.895114   0   1   Write   2478618     180   35.89513   0   1   Write   5077423	6 8 8 8 0 8 4 8 2 8 4 8 2 8
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169   35.894621   0   1   Write   5077398     171   35.894832   0   1   Write   28065063     173   35.89489   0   1   Write   5077406     175   35.895002   0   1   Write   27992515     176   35.895027   0   1   Write   4355463     177   35.89505   0   1   Write   5077416     178   35.895098   0   1   Write   8046934     179   35.895114   0   1   Write   2478618     180   35.89513   0   1   Write   5077423	4 8 2 8 4 8 2 8 2 8
171   35.894832   0   1   Write   28065063     173   35.89489   0   1   Write   5077406     175   35.895002   0   1   Write   27992515     176   35.895027   0   1   Write   4355463     177   35.89505   0   1   Write   5077416     178   35.895098   0   1   Write   8046934     179   35.895114   0   1   Write   2478618     180   35.89513   0   1   Write   5077423	2 8 4 8 2 8 2 8
173   35.89489   0   1   Write   5077406     175   35.895002   0   1   Write   27992515     176   35.895027   0   1   Write   4355463     177   35.89505   0   1   Write   5077416     178   35.895098   0   1   Write   8046934     179   35.895114   0   1   Write   2478618     180   35.89513   0   1   Write   5077423	4 8 2 8 2 8
175   35.895002   0   1   Write   27992515     176   35.895027   0   1   Write   4355463     177   35.89505   0   1   Write   5077416     178   35.895098   0   1   Write   8046934     179   35.895114   0   1   Write   2478618     180   35.89513   0   1   Write   5077423	2 8 2 8
176   35.895027   0   1   Write   4355463     177   35.89505   0   1   Write   5077416     178   35.895098   0   1   Write   8046934     179   35.895114   0   1   Write   2478618     180   35.89513   0   1   Write   5077423	2 8
177   35.89505   0   1   Write   5077416     178   35.895098   0   1   Write   8046934     179   35.895114   0   1   Write   2478618     180   35.89513   0   1   Write   5077423	
178   35.895098   0   1   Write   8046934     179   35.895114   0   1   Write   2478618     180   35.89513   0   1   Write   5077423	
179 35.895114 0 1 Write 2478618   180 35.89513 0 1 Write 5077423	+
180 35.89513 0 1 Write 5077423	
182   35.895168   0   1   Write   8062887	
183 35.895197 0 1 Write 5077427	
184   35.895274   0   1   Write   767302	+
185   35.895341   0   1   Write   5077430	
186   35.895392   0   1   Write   1088656	
64 16.813885 0 1 Write 6480456	
90 31.815923 0 1 Write 6480456	
5 9.998371 0 1 Write 7286920	
26 10.54725 0 1 Write 2461251	
27 10.54754 0 1 Write 2461252	
28 10.547809 0 1 Write 2461251	+
29 10.547995 0 1 Write 2461251	
36 10.551123 0 1 Write 2449105	
38 10.551286 0 1 Write 256216	
46 10.553044 0 1 Write 56740	
57 10.554891 0 1 Write 56740	
63 16.8138 0 1 Write 1452045	
68 18.891208 0 1 Write 56746	+
74 19.539421 0 1 Write 5097129	
77 19.539867 0 1 Write 5097161	
80 20.909389 0 1 Write 7391277	
81 22.25939 0 1 Write 56738	4 16
86 27.718742 0 1 Write 56752	
94 34.192336 0 1 Write 56754	
119 35.893283 0 1 Write 5100940	
123 35.893363 0 1 Write 5077578	
142 35.893837 0 1 Write 2912406	
155 35.894077 0 1 Write 5108863	
158 35.89415 0 1 Write 2912424	
161 35.894243 0 1 Write 2912427	
165 35.894515 0 1 Write 2912430	
174 35.89495 0 1 Write 8041688	

91	33.165651	0	1	Write	567400	24
150	35.893978	0	1	Write	29124104	24
172	35.894867	0	1	Write	80416840	24
2	8.642429	0	1	Write	567496	32
10	10.539772	0	1	Read	27134568	32
11	10.540274	0	1	Read	27134536	32
12	10.540792	0	1	Read	27134224	32
13	10.541379	0	1	Read	54988880	32
14	10.54212	0	1	Read	54988752	32
15	10.542783	0	1	Read	54988720	32
130	35.893526	0	1	Write	29124472	32
162	35.894288	0	1	Write	50773872	32
166	35.894531	0	1	Write	50773912	32
107	35.892842	0	1	Write	148436656	40
154	35.894067	0	1	Write	29124144	40
8	10.53831	0	1	Read	54988040	48
16	10.5438	0	1	Read	27129584	48
72	19.538261	0	1	Write	567472	48
125	35.893402	0	1	Write	29124416	48
135	35.893699	0	1	Write	51010392	48
62	16.747099	0	1	Read	24129256	56
170	35.894784	0	1	Write	29124328	56
0	8.393994	0	1	Read	208032818	64
6	10.53689	0	1	Read	54987976	64
7	10.537573	0	1	Read	54988088	64
9	10.539061	0	1	Read	27130936	64
18	10.545037	0	1	Write	75053728	64
19	10.545158	0	1	Write	75053792	64
22	10.54593	0	1	Write	75060256	64
23	10.545934	0	1	Write	75060512	64
30	10.54828	0	1	Write	75051680	64
31	10.548511	0	1	Write	75051744	64
34	10.549894	0	1	Read	54987816	64
58	10.555232	0	1	Read	27129728	64
60	10.566827	0	1	Write	53299328	64
61	10.58215	0	1	Write	53298368	64
99	35.862893	0	1	Read	301720040	64
134	35.893686	0	1	Write	29124512	72
103	35.889744	0	1	Write	581920	128
65	18.170083	0	1	Write	581784	136
101	35.865245	0	1	Write	304010488	136
98	35.86288	0	1	Read	301720104	168
69	18.891597	0	1	Write	96081248	232
95	34.192707	0	1	Write	39353696	232
102	35.868669	0	1	Read	303151640	256
100	35.864877	0	1	Write	301779744	688



#### **Result Analise:**

After monitoring the disk activity and identifying the read and write processes with a length greater than 5, the following observations were made:

- The read processes listed above indicate the processes that performed data read operations with a length greater than 5.
- The write processes listed above indicate the processes that performed data write operations with a length greater than 5.
- By analysing these processes, further insights can be gained into potentially resource-intensive or suspicious activities on the system.

#### **Conclusion:**

• Disk monitoring can be a valuable technique to identify read and write processes with a length greater than 5. This information can be helpful in identifying potential performance bottlenecks, resource-intensive processes, or suspicious activities on the system.

#### **Future scope:**

- provide real-time alerts for processes with length > 5.
- Conducting a deeper analysis of the identified processes to understand their impact on system performance and security.
- Integrating the disk monitoring functionality with other security tools for comprehensive threat detection and prevention.