**Programming Fundamentals**

**Lab Manual**

**Lab 03**

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**Topic: File Handling**

**Faculty of Information Technology**

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**Task 1**

* Read an integer from file **“read.txt”** and write it in a new file

|  |  |  |
| --- | --- | --- |
| **read.txt** |  | **write.txt** |
| 2368 | 2368 |

* Read a double from file **“read.txt”** and write it in a new file.

|  |  |  |
| --- | --- | --- |
| **read.txt** |  | **write.txt** |
| 52.37 | 52.37 |

* Read a bool from file **“read.txt”** and write it in a new file.

|  |  |  |
| --- | --- | --- |
| **read.txt** |  | **write.txt** |
| 1 | 1 |

* Read a float from file **“read.txt”** and write it in a new file.

|  |  |  |
| --- | --- | --- |
| **read.txt** |  | **write.txt** |
| 543.52 | 543.52 |

* Read a char from file **“read.txt”** and write it in a new file.

|  |  |  |
| --- | --- | --- |
| **read.txt** |  | **write.txt** |
| K | K |

* Read a char array from file **“read.txt”** and write it in a new file.

|  |  |  |
| --- | --- | --- |
| **read.txt** |  | **write.txt** |
| This is PF Lab | This is PF Lab |

**Task 2**

Write a program that reads 5 integer numbers from a file **“integer.txt”,** and store sum and average in **“result.txt”.**

|  |  |  |
| --- | --- | --- |
| **integer.txt** |  | **result.txt** |
| 2 1 3 7 4 | Sum is 17  Average is 3 |

**Task 3**

Write a program that reads 5 integer numbers from a file **“integer.txt”** and store Maximum and Minimum in **“result.txt”.**

|  |  |  |
| --- | --- | --- |
| **integer.txt** |  | **Result.txt** |
| 2 1 3 7 4 | Max is 7  Min is 1 |

**Task 4**

Write a program that reads an average from file **“average.txt”,** and store the status in **“newfile.txt”** on the basis of following criteria:

**If average < 4, then below average**

**If 4 <= Average <= 6, then on average**

**If average > 6, then above average**

|  |  |  |
| --- | --- | --- |
| **average.txt** |  | **newfile.txt** |
| 3 | below average |

**Task 5**

Write a program in which, you have to insert an integer value n in the start of file **“integer.txt”**.

|  |  |  |
| --- | --- | --- |
| **integer.txt** |  | **Input** |
| 2 1 3 7 4 | 9 |
| **Integer.txt** |
| 9 2 1 3 7 4 |