UNIVERSITY INSTITUTE of COMPUTING
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NAAC GRADE A+ ACCREDITED UNIVERSITY

Experiment 1.2

Subject Name: Back End Technologies

Subject Code: 22CAH-706

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Branch: MCA-305

Section/Group: 1/B

Semester: 3

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AIM OFTHE PRACTICAL::The aim of the practical is to understand and implement the process of copying data from one file to another using the fs (file system) module in NodeJs.

CODE:

```
const fs=require('fs');
fs.readFile('cu1.txt',(err,data)=>{
if(err){
console.log('error reading cu1.txt',err);
}else{
fs.writeFile('cu2.txt',data,(err)=>{
if(err){
console.error('error reading cu2.txt',err);
}else{
console.log('data transferred to cu2.txt')
}
});
}
});
```

FILE 1(CU1.txt) [DATA TO BE TRANSFERRED]

cu1.txt

```
1    hey...!
2    UIC WELCOMES YOU ALL
3    WELCOME ALL THE FRESHERS
4
```

FILE 2(CU2.txt) [DATA TRANSFERRED]

cu2.txt

```
1    hey...!
2    UIC WELCOMES YOU ALL
3    WELCOME ALL THE FRESHERS
4
```

Learning outcomes (What I have learnt):

Understanding File Streams: Understood the concept of file streams and their significance in efficiently handling large data transfers.
Using the fs Module: Demonstrated the ability to use the fs module's createReadStream() and createWriteStream() functions to interact with files for reading and writing operations.
Implementing Data Copying: Wrote code to effectively copy the data from a source file to a destination file using stream pipes and asynchronous programming techniques.
Troubleshooting Errors: Diagnosed and troubleshooted common errors that may occur during file operations, and applied appropriate error-handling strategies.