## Term Work-1

Problem Ofinition:

Write a C program to merge contents of a file containing USN's of students in a sarted oxider in to the 3rd file such that 3rd file contains Unique USN's. Brogram should also lightly common USN's in both files.

Aim:
The purpose of this TW is to learn the concept of File handling in C. Basic operations asing files & implementation of this concept in solving problems
Theory.  In software indusby, most of the programs are written to stare info, fetched from programs. One such way is to stare fetched info in a file. Different operation that can be performed on a file are:  Treation of a new file ( Jopen with altribules)
-> Greation of a new file (Sopen with altributes)  -> Opening an enisting file (Sopen)  -> Reading from file (Seconf or South)  -> Writing to a file (Sprints)  -> Closing a file (Sobse)

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Program!
# include < stdio. h>
# include < string. h>
int main (int argo, char *argv[]) {

FILE * $1 * $2 * $3;

$1 = foren ("usnfile1.tut" "H");

$2 = foren ("usnfile2.tact", "H");

if ($1 == NULL)
   prints ("In File I cannot be found");

if ($2 == NULL)

prints ("In File 2 cannot be found");

$3 = fopen ("usnfile 3 - tut", "w");

int manthon = 15;
   char us1 [manchar], usn2 [manchar];
   Sgets (usn1, monchar, f1);

Sgets (usn2, manchar, f2);

while (! feof (f1) le ! feof (f2)) {

if (' strump (usn1, usn2)) < 0) {

Sprintf (f3, "In 1/s \n", usn2);

3
               else {
                        sprints (f3, "In/s"In/usn2);
              Sprint (f3, "In:/s In", usn1);
         fgets (usn1, manchar, f1);
fgets (usn2, manchar, f2);
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else {
    while (! seof ($2)) {

fgets (usn2, manchan, $2);

fprintf (asn $3, "In/s", csn2);

y
return O;
```

Process returned 0 (0x0) execution time: 1.812 S
Press any key to continue.

Done Process returned 0 (0x0) execution time : 1.812 s Press any key to continue.

References:
Books:
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* Horowitz, Sahni, Anderson-Freed Fundamentals of Data Structures in C, Universe Press 2nd Edition.
Data Structures in C. Universe Press 2nd Edition
E-Resources:
* https://gecksforgecks.org/
Conclusion
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of siles & their implementation to solve problems.
In this TW, we learnt about files, basic operations of files & their implementation to solve problems.  We also learned basic problem solving techniques & programming paradigms.
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