C PROGRAMMING ASSIGNMENT: 22

DATE: 21.01.2022

SUBMITTED BY: -

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BRANCH: CSE

SECTION: B22

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WAP for accessing array elements

Code:

```
#include<stdio.h>
int main()
{
    FILE *fp;
    int i, a[10] = {2, 4, 6, 8, 1, 3, 5, 7, 9, 0};
    fp = fopen("Pr1.txt", "w");
    for (i = 0; i < 10; i++)
        fprintf(fp, "%d\n", a[i]);
    fclose(fp);
    return (0);
}</pre>
```

File:

Output:

```
21jan22_lab 22 > C 1.c > © main()

1 #include<stdio.h>
2 //accessing array elements

il... PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

Windows PowerShell
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PS C:\Users\KIIT\OneDrive\Desktop\C programming\lab> cd "c:\Users\KIIT\OneDrive\Desktop\C program cc 1.c -o 1 }; if ($?) { .\1 }

PS C:\Users\KIIT\OneDrive\Desktop\C programming\lab\21jan22_lab 22>
```

2. WAP to read contents of a file, store it onto an array and find sum of the elements and print in reverse order.

Code:

```
#include <stdio.h>
int main()
{
    FILE *fp;
    int a[10], i, sum = 0;
    fp = fopen("Pr1.txt", "r");
    for (i = 0; i < 10; i++)
    {
        fscanf(fp, "%d", &a[i]);
        sum += a[i];
    }
    printf("SUM= %d ",sum);
    for (i = 9; i >= 0; i--)
        printf("\n %d ", a[i]);
    fclose(fp);
    return (0);
}
```

File:

```
• C 3.c
        C 2.c

■ Pr1.txt

                                                    21jan22_lab 22 > ≡ Pr1.txt
       2
        3
       4
       5
       6
       2
        5
        8
   9
        6
        5
  10
  11
  12
```

Output:

```
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PS C:\Users\KIIT\OneDrive\Desktop\C programming\lab> cd "c:\Users\KIIT\OneDrive
cc 2.c -0 2 } ; if ($?) { .\2 }
SUM= 46
5
6
8
 5
 2
 6
 5
4
3
2
PS C:\Users\KIIT\OneDrive\Desktop\C programming\lab\21jan22_lab 22>
```

3. WAP to Count chars, blank spaces, tabs and newlines in a file.

Code:

```
#include <stdio.h>
int main()
    FILE *fp;
    char ch;
   int noc = 0, nob = 0, not = 0, non = 0;
    fp = fopen("Pr1.txt", "r");
   while ((ch = fgetc(fp)) != EOF)
    {
       noc++;
        if (ch == ' ')
            nob++;
        if (ch == '\t')
            not ++;
        if (ch == '\n')
            non++;
    //continuation of program
    printf("\nNo. of characters = %d", noc);
    printf("\nNo. of blanks = %d", nob);
    printf("\nNo. of tabs = %d", not );
    printf("\nNo. of lines = %d", non);
    fclose(fp);
    return 0;
```

File:

Output:

```
1 //Count chars, blank spaces, tabs and newlines
2 #include <stdio.h>

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PS C:\Users\KIIT\OneDrive\Desktop\C programming\lab> cd "c:\Users\KIIT\OneDrive\C 3.c -0 3 }; if ($?) { .\3 }

No. of characters = 61
No. of blanks = 7
No. of tabs = 0
No. of lines = 5
PS C:\Users\KIIT\OneDrive\Desktop\C programming\lab\21jan22_lab 22>
```