**Program 11- Program to implement the Dynamic Memory Allocation and File Handling.**

**Program 1- WAP to copy the content of one file into another.**

#include<stdio.h>

#include<stdlib.h>

int main()

{

    FILE \*fptr1, \*fptr2;

    char filename[100], c;

   printf("Enter the filename to open for reading \n");

    scanf("%s", filename);

**// Open one file for reading**

    fptr1 = fopen(filename, "r");

    if (fptr1 == NULL)

    {

        printf("Cannot open file %s \n", filename);

        exit(0);

    }

    printf("Enter the filename to open for writing \n");

    scanf("%s", filename);

**// Open another file for writing**

    fptr2 = fopen(filename, "w");

    if (fptr2 == NULL)

    {

        printf("Cannot open file %s \n", filename);

        exit(0);

    }

**// Read contents from file**

    c = fgetc(fptr1);

    while (c != EOF)

    {

        fputc(c, fptr2);

        c = fgetc(fptr1);

    }

    printf("\nContents copied to %s", filename);

    fclose(fptr1);

    fclose(fptr2);

    return 0;

}

**Program 2- WAP to count the number of words and number of character in a file.**

#include <stdio.h>

#include <stdlib.h>

void main()

{

FILE \*fptr;

char ch;

int wrd=1,charctr=1;

char fname[20];

printf("\n\n Count the number of words and characters in a file :\n");

printf("---------------------------------------------------------\n");

printf(" Input the filename to be opened : ");

scanf("%s",fname);

fptr=fopen(fname,"r");

if(fptr==NULL)

{

printf(" File does not exist or can not be opened.");

}

else

{

ch=fgetc(fptr);

printf(" The content of the file %s are : ",fname);

while(ch!=EOF)

{

printf("%c",ch);

if(ch==' '||ch=='\n')

{

wrd++;

}

else

{

charctr++;

}

ch=fgetc(fptr);

}

printf("\n The number of words in the file %s are : %d\n",fname,wrd-2);

printf(" The number of characters in the file %s are : %d\n\n",fname,charctr-1);

}

fclose(fptr);

}

**Program 3- WAP to implement malloc() function.**

#include <stdio.h>

#include <stdlib.h>

**int** main ()

{

**int** \*pt;

    pt = malloc (**sizeof**(**int**));

**if** (pt != NULL)

    {

         printf (" Memory is created using the malloc() function ");

    }

**else**

    printf (" memory is not created ");

**return** 0;

}

**Program 4- WAP to implement calloc() function.**

**#**include <stdio.h>

#include <stdlib.h>

**int** main()

{

**int** \*ptr;

ptr = calloc (4, **sizeof**(**int**));

**if** (ptr != NULL)

{

printf (" Memory is created successfully \n");

}

**else**

printf (" Memory is not created ");

**return** 0;

}