Ex. No: 10 Date: 06-12-21

FILES

PROBLEM GIVEN:

Write a program to store the customer data into a file and extract details from the file. Extend the previous program to implement the same.

ALGORITHM:

STEP 1: START

STEP 2 : Declare all necessary variables, pointer variables, structure variables and file pointers.

STEP 3: Get the number of customers from the user.

STEP 4: Implement a for-loop for n times reading each user's details (customer id, customer name, customer name and Vehicle cost).

STEP 5 : Open a file in write mode. If file is not opened, Display error message and end the program.

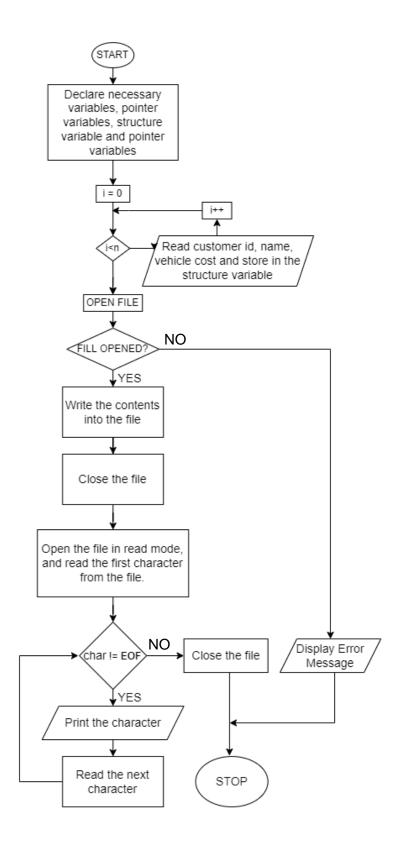
STEP 6: If file is opened, then write the contents into the file and close the file.

STEP 7: Close the file.

STEP 8: Implement a while loop that check if the character is not "EOF". If yes, print the character and read the next character. If not, break the loop.

STEP 9: STOP

FLOWCHART:



PROGRAM:

```
#include <stdio.h>
#include <stdlib.h>
struct customer{
  int cid:
  char name[10];
  float vcost;
};
int main()
  int i, j, n;
  struct customer customers[10];
  struct customer *q, *customern;
  char ch;
  FILE *fp;
  q = (struct customer *) malloc(sizeof(struct customer));
  printf("Enter number of customers : ");
  scanf("%d", &n);
  for(i=0;i< n-1;i++)
     printf("Enter Customer ID, customer name and Vehicle cost : ");
     scanf("%d %s %f", &customers[i].cid, customers[i].name, &customers[i].vcost);
  }
  printf("Enter Customer ID, customer name and Vehicle cost : ");
  scanf("%d %s %f", &q->cid, q->name, &q->vcost);
  fp = fopen("sample.txt", "w");
  for(i=0;i< n-1;i++){
     fprintf(fp, "Name = %s\nCustomer Id = %d\nVehicle cost = %.2f\n\n",
customers[i].name, customers[i].cid, customers[i].vcost);
  fprintf(fp, "Name = %s\nCustomer Id = %d\nVehicle cost = %.2f\n\n", q->name, q-
>cid, q->vcost);
  fclose(fp);
  fp = fopen("sample.txt", "r");
  ch = getc(fp);
  printf("\nCustomer datails stored in the files are...\n");
```

```
while(ch != EOF){
    printf("%c", ch);
    ch = getc(fp);
}

return 0;
```

TEXT FILE:

OUTPUT:

```
Enter number of customers : 3
Enter Customer ID, customer name and Vehicle cost : 1554 Ashvath 265351.25
Enter Customer ID, customer name and Vehicle cost: 2344 Ashwin 135199.55
Enter Customer ID, customer name and Vehicle cost : 5564 Raj 98564.99
Customer datails stored in the files are...
Name = Ashvath
Customer Id = 1554
Vehicle cost = 265351.25
Name = Ashwin
Customer Id = 2344
Vehicle cost = 135199.55
Name = Raj
Customer Id = 5564
Vehicle cost = 98564.99
...Program finished with exit code 0
Press ENTER to exit console.
```