PROGRAMMING FUNDAMENTALS ASSIGNMENT

TASK 1:  
CODE:

#include <iostream>

#include <fstream>

using namespace std;

float total=0;

float LessThan3(float hours){

    total = total+2.00;

    return 2.00;

}

float MoreThan3(float hours){

    int size = hours-3;

    float j=2.00;

    for (int i = 0; i < size; i++)

    {

        j=j+0.50;

    }

    total = total+j;

    return j;

}

float OnIt(float hours){

    total = total + 10.00;

    return 10.00;

}

int main(){

    fstream File;

    float hours;

    float total\_hours;

    File.open("Parking.txt",ios::out);

    File<<"Cars\t"<<"Hours\t"<<"Charge"<<endl;

    for (int i = 0; i < 3; i++)

    {

        cout<<"Enter the number of hours for the "<<i+1<<" car ";

        cin>>hours;

        total\_hours = total\_hours+hours;

        if(hours<=3){

            File<<i+1<<"\t\t"<<hours<<"\t\t"<<LessThan3(hours)<<endl;

        }

        else if(hours<24 && hours>3){

            File<<i+1<<"\t\t"<<hours<<"\t\t"<<MoreThan3(hours)<<endl;

        }

        else if(hours >= 24){

            File<<i+1<<"\t\t"<<hours<<"\t\t"<<OnIt(hours)<<endl;

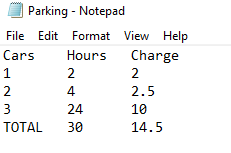
        }

    }

    File<<"TOTAL\t"<<total\_hours<<"\t\t"<<total;

}

OUTPUT:  
console:  


FILE:  


TASK 2:  
CODE:

#include <iostream>

using namespace std;

int modify(int(&array)[6],int& sizeArray,int&target){

    for (int i = 0; i < 6; i++)

    {

        if(array[i]==target){

            array[i] = array[i+1];                                  //removing the targetted number

            if(array[i]==target || array[i] == array[i+1]){

                array[i+1]=array[i+2];                              // checking if thier any repetition after removel

            }

            sizeArray--;                                            //Reducing size of array

        }

    }

}

int main(){

    int num[] = {1,2,3,4,5,3};

    int size = sizeof(num)/sizeof(num[0]);

    int target\_value;

    cout<<"Enter The Target Value : ";

    cin>>target\_value;

    modify(num,size,target\_value);

    for (int i = 0; i < size; i++)

    {

        cout<<num[i]<<"\t";

    }

}

OUTPUT:  


TASK 3:

CODE:

#include <iostream>

using namespace std;

int sizea;

int Rotate(int arr[], int num)

{

    int temp\_arr[5] = {};

    int sizeb = sizeof(temp\_arr) / sizeof(temp\_arr[0]);

    for (int i = 0; i < num; i++)

    {

        temp\_arr[i] = arr[i];               // Initializing it with initial integers in arr

    }

    for (int j = num; j < sizea; j++)

    {

        arr[j - num] = arr[j];              // Moving all the elements in to the left side

    }

    for (int k = sizea-num,j=0; k < sizea; k++,j++)

    {

        arr[k] = temp\_arr[j];               // Initalizing end elements with temp\_arr[] elements

    }

    for (int i = 0; i < sizea; i++)

    {

        cout<<arr[i]<<" ";

    }

}

int main()

{

    int arr[5] = {1, 2, 3, 4, 5};

    int temp\_arr[5] = {};

    sizea = sizeof(arr) / sizeof(arr[0]);

    int number;

    cout << "Enter the Number : ";

    cin >> number;

    Rotate(arr, number);

}

OUTPUT:  
