PF ASSIGNMENT 2:

Task 1:

Code:

#include <iostream>

using namespace std;

void ForOdd(char *arr*[], int *size*)

{

    cout << "Lenght is " << *size* << endl;

    int k = 0;

    char Ordered\_arr[*size* + 1] = {};

    for (int b = 'a'; b <= 'z'; b++) // loop of alphabet

    {

        for (int i = 0; i <= *size*; i++)

        {

            if (*arr*[i] == ' ') // removing spaces

            {

                continue;

            }

            if (*arr*[i] == b)

            {

                Ordered\_arr[k] = *arr*[i]; // if the word match it will copy to other array else alphabet will increase

                k++;

            }

        }

    }

    cout << Ordered\_arr;

}

void ForEven(char *arr*[], int *size*)

{

    cout << "Lenght is " << *size* << endl;

    char reversed\_arr[*size* + 1] = {};

    int j = 0;

    for (int i = *size* - 1; i >= 0; i--)

    {

        reversed\_arr[j] = *arr*[i]; //reverse loop to show elements in reverse order

        j++;

    }

    cout << j << endl;

    cout << reversed\_arr;

}

int main()

{

    char arr[100] = {};

    int check = 0;

    cout << "Enter your sentence : ";

    cin.getline(arr, 100);

    for (int i = 0; arr[i] != '\0'; i++)

    {

        check += 1;

    }

    if (check % 2 == 0)

    {

        ForEven(arr, check);

    }

    if (check % 2 != 0)

    {

        ForOdd(arr, check);

    }

}

OUTPUT:  




Task 2:

Code:

#include <iostream>

using namespace std;

int main(){

    int swap;

    int a=5;

    int b=7;

    cout<<"Before swap a = "<<a<<endl;

    cout<<"Before swap b = "<<b<<endl;

    int\* a\_pointer = &a;

    int\* b\_pointer = &b;

    swap = \*b\_pointer;

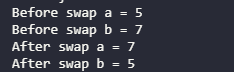
    \*b\_pointer = \*a\_pointer;

    \*a\_pointer = swap;

    cout<<"After swap a = "<<a<<endl;

    cout<<"After swap b = "<<b<<endl;

}

Output:  


Task 3:

Code:

#include <iostream>

using namespace std;

int main(){

    int arr[5]={1,2,3,4,5};

    int sum = 0;

    float average;

    for (int i = 0; i < 5; i++)

    {

        int\* ptr\_arr = &arr[i]; // getting every single element's memory and storing it in pointer variable

        sum = sum + \*ptr\_arr;//retrieving value from the memory location and summing it

    }

    average = sum/5;//getting averege

    cout<<"Average of the array is : "<<average;

}

OUTPUT:  
