Task No.4 – To-Do List

* Code:

#include<iostream>

#include<string>

using namespace std;

struct Task{

int completed;

string info;

};

Task tasks[100];

int nTasks=0;

void addTask(){

string info;

cout<<"Enter task information:";

cin>>info;

tasks[nTasks].info=info;

tasks[nTasks].completed=false;

nTasks++;

cout<<"Task added successfully!";

}

void viewTasks(){

cout<<"Tasks:";

for(int i=0;i<nTasks;i++){

cout<<"["<<i+1<<"]"<<tasks[i].info<<"("<<(tasks[i].completed ? "Completed":"Pending")<<")";

}

}

void TaskCompleted(){

int taskNumber;

cout<<"Enter task number to mark the task as completed: ";

cin>>taskNumber;

if(taskNumber>=1 && taskNumber<=nTasks){

cout<<"Task marked as completed!";

}

else{

cout<<"Invalid task number!";

}

}

void removeTask(){

int taskNumber;

cout<<"Enter task number to remove task: ";

cin>>taskNumber;

if(taskNumber>=1 && taskNumber<=nTasks){

for(int i=taskNumber-1;i<nTasks-1;i++){

tasks[i]=tasks[i+1];

}

nTasks--;

cout<<"Task Removed!";

}

else{

cout<<"Invalid task number!";

}

}

int main(){

int choice;

while(true){

cout<<"\n------------------To-Do List-------------------------";

cout<<"\n\t 1.Add Tasks\n\t 2.View Tasks\n\t 3.Mark Task as Completed\n\t 4.Remove Task\n\t 5.Exit\n";

cout<<"Enter your choice: ";

cin>>choice;

switch(choice){

case 1:

addTask();

break;

case 2:

viewTasks();

break;

case 3:

TaskCompleted();

break;

case 4:

removeTask();

break;

case 5:

exit(0);

default:

cout<<"Invalid Choice!";

}

}

return 0;

}

* Output:

