***//WAP TO CHECK WHETHER TWO STRINGS ARE ANAGRAMS OR NOT.***

#include <stdio.h>

void sort(char s[]) {

    int i, j;

    char temp;

    for(i=0; s[i]!='\0'; i++) {

    for(j=i+1; s[j]!='\0'; j++) {

    if(s[i] > s[j]) {

    temp = s[i];

    s[i] = s[j];

    s[j] = temp;

    }

    }

    }

}

int main() {

    char str1[100], str2[100];

    int i;

    printf("Enter first string: ");

    scanf("%s", str1);

    printf("Enter second string: ");

    scanf("%s", str2);

    sort(str1);

    sort(str2);

    for(i=0; str1[i]!='\0' && str2[i]!='\0'; i++) {

    if(str1[i] != str2[i]) {

    printf("Not Anagrams\n");

    return 0;

    }

    }

    if(str1[i] == str2[i])

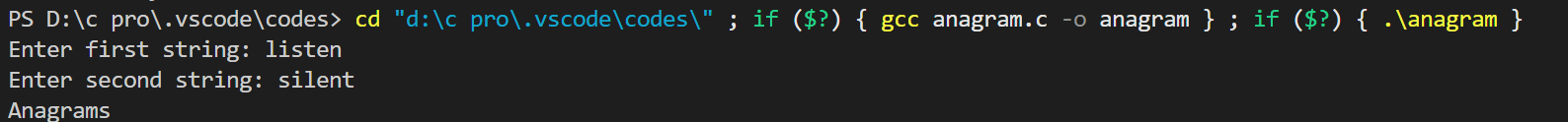
    printf("Anagrams\n");

    else

    printf("Not Anagrams\n");

    return 0;

}



\

***//WAP TO FIND THE SECOND LARGEST ELEMENT IN AN ARRAY BY PASSING THE ARRAY TO A FUNCTION.***

#include <stdio.h>

int secondLargest(int arr[], int n) {

    int i, largest, second;

    if(n < 2) return -1;

    largest = second = -99999;

    for(i=0; i<n; i++) {

    if(arr[i] > largest) {

    second = largest;

    largest = arr[i];

    }

    else if(arr[i] > second && arr[i] != largest) {

    second = arr[i];

    }

    }

    return second;

}

int main() {

    int arr[50], n, i, ans;

    printf("Enter number of elements: ");

    scanf("%d", &n);

    printf("Enter %d elements:\n", n);

    for(i=0; i<n; i++) {

        scanf("%d", &arr[i]);

    }

    ans = secondLargest(arr, n);

    if(ans == -1)

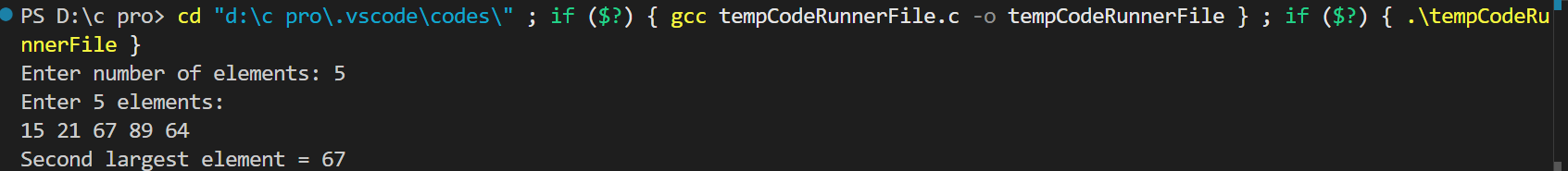
    printf("Not enough elements\n");

    else

    printf("Second largest element = %d\n", ans);

    return 0;

}

******

***//Write a program to find sum of digits using recursion***

#include <stdio.h>

int sumDigits(int n) {

    if(n == 0)

    return 0;

    return (n % 10) + sumDigits(n / 10);

}

int main() {

    int num;

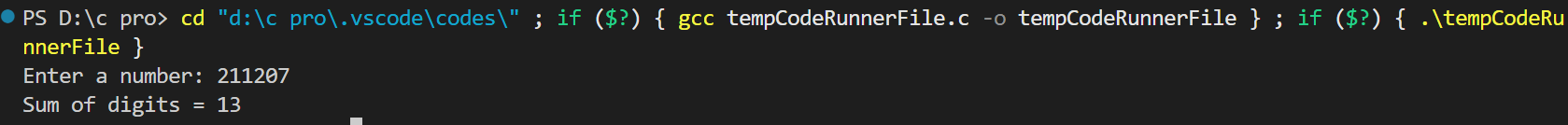
    printf("Enter a number: ");

    scanf("%d", &num);

    printf("Sum of digits = %d\n", sumDigits(num));

    return 0;

}

******

***//Write a program and a function to swap two numbers using call by reference***

#include <stdio.h>

void swap(int \*x, int \*y)

{

    int t = \*x;

    \*x = \*y;

    \*y = t;

}

int main()

{

    int a, b;

    printf("Enter 2 numbers: ");

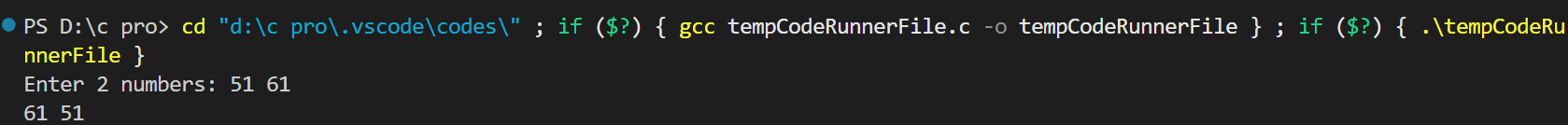
    scanf("%d %d",&a,&b);

    swap(&a,&b);

    printf("%d %d\n",a,b);

    return 0;

}



***//Write a function to sort an array using functions.***

#include <stdio.h>

void sortArray(int arr[], int n){

    int i, j, temp;

    for(i=0;i<n;i++)

    for(j=i+1;j<n;j++)

    if(arr[i]>arr[j])

    {

    temp=arr[i];

    arr[i]=arr[j];

    arr[j]=temp;

    }

}

int main(){

    int arr[50], n, i;

    printf("Enter number of elements: ");

    scanf("%d",&n);

    printf("Enter %d elements: ", n);

    for(i=0;i<n;i++) scanf("%d",&arr[i]);

    sortArray(arr,n);

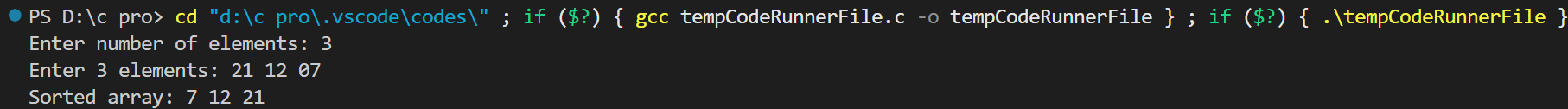
    printf("Sorted array: ");

    for(i=0;i<n;i++) printf("%d ",arr[i]);

    printf("\n");

    return 0;

}

******

***//Write a program to define a structure name student with roll number, name, and marks.***

***Write functions to input and display student details.***

#include <stdio.h>

struct student

{

    int roll;

    char name[50];

    float marks;

};

void inputStudent(struct student \*s)

{

    printf("Enter roll number: ");

    scanf("%d", &s->roll);

    printf("Enter name: ");

    scanf("%s", s->name);

    printf("Enter marks: ");

    scanf("%f", &s->marks);

}

void displayStudent(struct student s)

{

    printf("Roll Number: %d\n", s.roll);

    printf("Name: %s\n", s.name);

    printf("Marks: %.2f\n", s.marks);

}

int main(){

    struct student s1;

    inputStudent(&s1);

    printf("\nStudent Details:\n");

    displayStudent(s1);

    return 0;

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***//Write a program to create a structure employee (ID, Name, Basic Pay, DA, HRA, Gross Salary).***

***and write a function to calculate salary and display details.***

#include <stdio.h>

struct employee{

    int id;

    char name[50];

    float basic;

    float da;

    float hra;

    float gross;

};

void inputEmployee(struct employee \*e)

{

    printf("Enter Employee ID: ");

    scanf("%d", &e->id);

    printf("Enter Employee Name: ");

    scanf("%s", e->name);

    printf("Enter Basic Pay: ");

    scanf("%f", &e->basic);

    printf("Enter DA: ");

    scanf("%f", &e->da);

    printf("Enter HRA: ");

    scanf("%f", &e->hra);

    e->gross = e->basic + e->da + e->hra;

}

void displayEmployee(struct employee e)

{

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

    printf("Employee ID: %d\n", e.id);

    printf("Employee Name: %s\n", e.name);

    printf("Basic Pay: %.2f\n", e.basic);

    printf("DA: %.2f\n", e.da);

    printf("HRA: %.2f\n", e.hra);

    printf("Gross Salary: %.2f\n", e.gross);

}

int main(){

    struct employee e1;

    printf("Input details for the employee:\n");

    inputEmployee(&e1);

    printf("\nDisplaying employee details:\n");

    displayEmployee(e1);

    return 0;

}

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AI-generated content may be incorrect.***