ASSIGNMENT 16

PRANEESH SHARMA

B22

21052264

Q1. Write a program to display sum of an array.

Code:

#include <stdio.h>

int main()

{

    int i, \*ptr, sum=0, arr[5]={2,4,6,8,0};

    ptr = arr;

    for(i=0;i<5;i++)

    sum+=\*(ptr+i);

    printf("Sum = %d",sum);

    return 0;

}

Output:



Q2. Write a program to display sum of 2 numbers.

Code:

#include <stdio.h>

int main()

{

    int a,b,sum,\*p,\*q;

    printf("Enter Number 1: ");

    scanf("%d",&a);

    printf("Enter Number 2: ");

scanf("%d",&b);

    p=&a;

    q=&b;

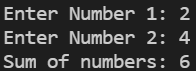
sum= \*p + \*q;

    printf("Sum of numbers: %d",sum);

    return 0;

}

Output:



Q3. Write a program to swap 2 numbers.

Code:

#include <stdio.h>

int main()

{

int a,b,\*p,\*q,temp;

    printf("Enter Number 1: ");

    scanf("%d",&a);

    printf("Enter Number 2: ");

scanf("%d",&b);

printf("Before Swapping\na = %d\nb = %d\n", a, b);

    p=&a;

q=&b;

    temp = \*q;

    \*q = \*p;

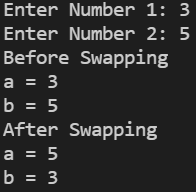
\*p = temp;

    printf("After Swapping\na = %d\nb = %d", \*p, \*q);

    return 0;

}

Output:



Q4. Write a program to display greater of 2 numbers.

Code:

#include <stdio.h>

int main()

{

int a, b, \*p, \*q;

    printf("Enter Number 1: ");

    scanf("%d",&a);

    printf("Enter Number 2: ");

    scanf("%d",&b);

    p = &a;

q = &b;

    if(\*p > \*q)

    printf("Maximum number: %d", \*p);

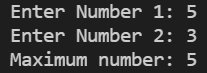
    else

    printf("Maximum number: %d", \*q);

    return 0;

}

Output:



Q4. Write a program to display the middle integer.

Code:

#include <stdio.h>

int main()

{

int data[5], \*a, t, i, j;

    for (i = 0; i < 5; ++i)

    {

        printf("Enter number %d: ", i+1);

        scanf("%d", data + i);

    }

    for (i = 0; i < 5; ++i)

    {

        for (j = i + 1; j < 5; ++j)

        {

            if (data[i] > data[j])

            {

                t = data[i];

                data[i] = data[j];

                data[j] = t;

            }

        }

    }

    printf("\nAscending order:\n");

    for (int i = 0; i < 5; ++i)

    {

        printf("%d\t", data[i]);

}

a = data;

    printf("\nMiddle Number: %d\n", \*(a + 2));

    return 0;

}

Output:

