**Array**

**Problem 01:**

Write a C program to read and print elements of array.

**Source Code:**

#include <stdio.h>

int main()

{

int n, i;

printf("Enter number of elements: ");

scanf("%d", &n);

int arr[n];

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

for(i = 0; i < n; i++)

{

scanf("%d", &arr[i]);

}

printf("Array elements are:\n");

for(i = 0; i < n; i++)

{

printf("%d ", arr[i]);

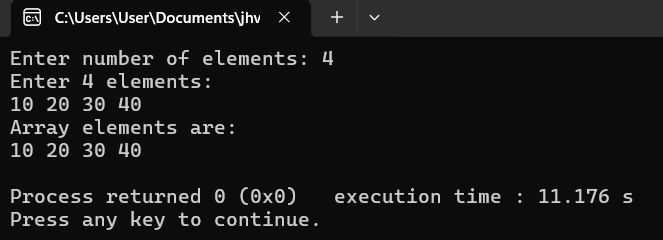
}

printf("\n");

return 0;

}

**Output:**

****

**Problem 02:**

Write a C program to print all negative elements in an array.

**Source code:**

#include <stdio.h>

int main()

{

int n, i;

printf("Enter number of elements: ");

scanf("%d", &n);

int arr[n];

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

for(i = 0; i < n; i++)

{

scanf("%d", &arr[i]);

}

printf("Negative elements in the array are:\n");

for(i = 0; i < n; i++)

{

if(arr[i] < 0)

{

printf("%d ", arr[i]);

}

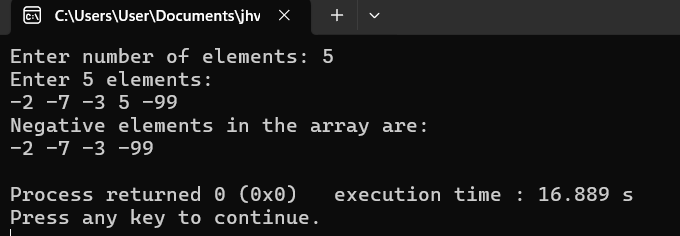
}

printf("\n");

return 0;

}

**Output:**

****

**Problem 03:**

Write a C program to find sum of all array elements.

**Source Code:**

#include <stdio.h>

int main()

{

int n, i, sum = 0;

printf("Enter number of elements: ");

scanf("%d", &n);

int arr[n];

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

for(i = 0; i < n; i++)

{

scanf("%d", &arr[i]);

}

for(i = 0; i < n; i++)

{

sum += arr[i];

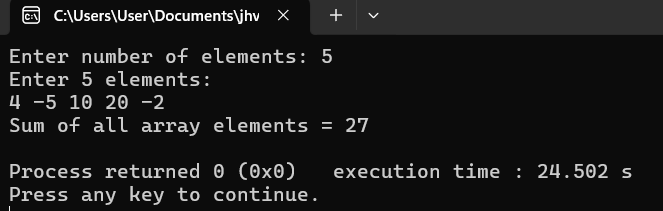
}

printf("Sum of all array elements = %d\n", sum);

return 0;

}

**Output:**

****

**Problem 04:**

Write a C program to find maximum and minimum element in an array.

**Source Code:**

#include <stdio.h>

int main()

{

int n, i, max, min;

printf("Enter number of elements: ");

scanf("%d", &n);

int a[n];

printf("Enter elements: ");

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

max = min = a[0];

for(i = 1; i < n; i++)

{

if(a[i] > max) max = a[i];

if(a[i] < min) min = a[i];

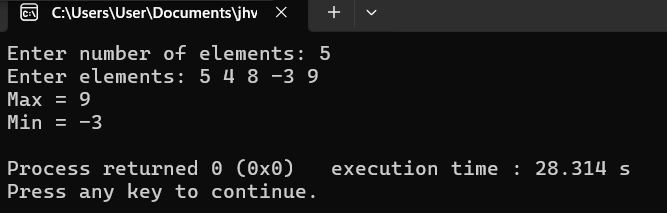
}

printf("Max = %d\nMin = %d\n", max, min);

return 0;

}

**Output:**

****

**Problem 05:**

Linear search.

**Source Code:**

#include<stdio.h>

int main()

{

int flag =0, i, search\_value, a[20] = {10,2,-1,0,-3,9};

printf("Enter search value: ");

scanf("%d", &search\_value);

for(i=0; i<6; i++)

{

if(search\_value == a[i])

{

flag = 1;

break;

}

}

if(flag == 1)

{

printf("Value is found");

}

else

{

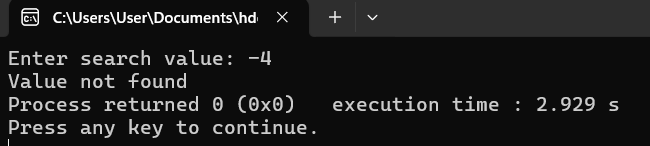
printf("Value not found");

}

return 0;

}

**Output:**

****