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Praktikum AP1 Kel.A1

```
#include<stdio.h>
```

```
#include<conio.h>
```

```
main (){
```

```
    int A[10][10],i,j,total=0,n,min,max;
```

```
    printf("Masukkan jumlah data = ");
```

```
    scanf("%d", &n);
```

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

```
    {
```

```
        for(j=1; j<=n; j++)
```

```
        {
```

```
            printf("A[%d][%d] = ", i, j);
```

```
            scanf("%d", &A[i][j]);
```

```
        }
```

```
    }
```

```
    printf("Data Array Dua Dimensi\n");
```

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

```
    {
```

```
        printf("\n\t\t\t\t\t");
```

```
        for(j=1; j<=n; j++)
```

```
        {

            printf("%d\t", A[i][j]);

            total+=A[i][j];

        }

        printf("\n");

    }

    printf("Total = %d\n", total);


    min=A[1][1];
    max=A[1][1];

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

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

            {

                if(A[i][j]>=max)

                {

                    max=A[i][j];

                }

                else

                {

                    min=A[i][j];

                }

            }

    }

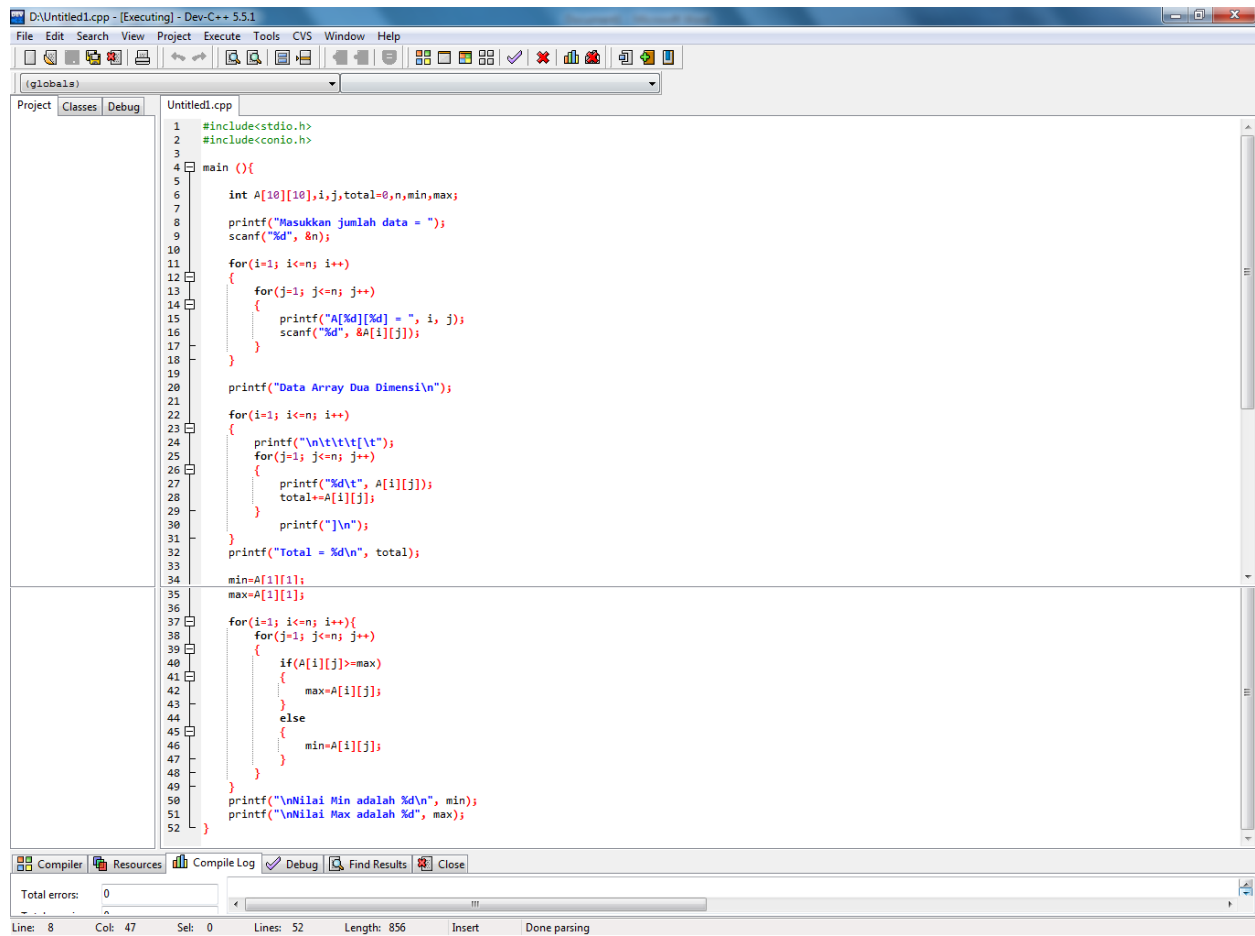
    printf("\nNilai Min adalah %d\n", min);
```

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```
printf("\nNilai Max adalah %d", max);  
  
}
```

## Screenshot



The screenshot displays the Dev-C++ 5.5.1 IDE with a C++ program in a file named 'Untitled1.cpp'. The program is designed to find the maximum and minimum values in a 2D array. It starts by including `<stdio.h>` and `<conio.h>`. The `main` function declares a 2D array `A[10][10]` and variables `i, j, total=0, n, min, max`. It prompts the user to enter the number of data points (`n`) using `printf` and `scanf`. A nested loop iterates from `i=1` to `n` and `j=1` to `n`, allowing the user to input values into the array `A[i][j]`. After data entry, it prints the 2D array dimensions. Another nested loop calculates the total sum of all elements in the array. A final nested loop identifies the maximum and minimum values by comparing each element with the current `max` and `min` values. The program concludes by printing the total sum, the minimum value, and the maximum value.

```
1 #include<stdio.h>  
2 #include<conio.h>  
3  
4 main ()  
5  
6     int A[10][10],i,j,total=0,n,min,max;  
7  
8     printf("Masukkan jumlah data = ");  
9     scanf("%d", &n);  
10  
11     for(i=1; i<=n; i++)  
12     {  
13         for(j=1; j<=n; j++)  
14         {  
15             printf("A[%d][%d] = ", i, j);  
16             scanf("%d", &A[i][j]);  
17         }  
18     }  
19  
20     printf("Data Array Dua Dimensi\n");  
21  
22     for(i=1; i<=n; i++)  
23     {  
24         printf("\n\t\t\t\t\t");  
25         for(j=1; j<=n; j++)  
26         {  
27             printf("%d\t", A[i][j]);  
28             total+=A[i][j];  
29         }  
30         printf("\n");  
31     }  
32     printf("Total = %d\n", total);  
33  
34     min=A[1][1];  
35     max=A[1][1];  
36  
37     for(i=1; i<=n; i++)  
38     {  
39         for(j=1; j<=n; j++)  
40         {  
41             if(A[i][j]>=max)  
42             {  
43                 max=A[i][j];  
44             }  
45             else  
46             {  
47                 min=A[i][j];  
48             }  
49         }  
50     }  
51     printf("\nNilai Min adalah %d\n", min);  
52     printf("\nNilai Max adalah %d", max);  
53 }
```

```
D:\Untitled1.exe
Masukkan jumlah data = 3
A[1][1] = 1
A[1][2] = 2
A[1][3] = 3
A[2][1] = 4
A[2][2] = 5
A[2][3] = 6
A[3][1] = 7
A[3][2] = 8
A[3][3] = 9
Data Array Dua Dimensi
      [ 1 2 3 ]
      [ 4 5 6 ]
      [ 7 8 9 ]
Total = 45
Nilai Min adalah 1
Nilai Max adalah 9
-----
Process exited with return value 0
Press any key to continue . . .
```