

Array Examples

Program-1:

```
#include <stdio.h>
void main()
{
    int arr[]={1,3,5,6,8};

    printf("%d",arr[1]);

}
```

Output:

3

Program-2:

```
#include <stdio.h>

void main()
{
    int arr[]={1,3,5,6,8};

    printf("%d\t%d",arr[1],arr[3]);

}
```

Output:

3 6

Program-3:

```
#include <stdio.h>
void main()
{
    int arr[5];
    int i;
    printf("Enter the array elements\n");
    for(i=0;i<5;i++)
    {
        scanf("%d",&arr[i]);
    }
    printf("Display array elements");
    for(i=0;i<5;i++)
    {
        printf("%d",arr[i]);
    }
}
```

Output:

Enter the array elements

1

2

3

4

5

Display array elements12345

Program-4:

```
#include <stdio.h>
void main()
{
    int arr[]={1,3,5,6,8};
    int i;
    for(i=0;i<5;i++)
    {
        printf("%d",arr[i]);
    }
}
```

Output:

13568

Program-5:

```
#include <stdio.h>
void main()
{
    int
abc[5][4]={ {0,1,2,3},{4,5,6,7},{8,9,10,11},{12,13,14,15},{16,17,
18,19}};
    int i,j;
    for(i=0;i<5;i++)
    {
        printf("\n");
        for(j=0;j<4;j++)
        {
            printf("%d\t",abc[i][j]);
        }
    }
}
```

Output:

0	1	2	3
4	5	6	7
8	9	10	11
12	13	14	15
16	17	18	19

Program-6:

```
#include <stdio.h>
void main()
{
    int arr[5];
    int i,sum=0;
    printf("Enter the array elements\n");
    for(i=0;i<5;i++)
    {
        scanf("%d",&arr[i]);
    }

    for(i=0;i<5;i++)
    {

        sum+=arr[i];
        printf("Sum=%d\n",sum) ;
    }

}
```

OUTPUT:

Enter the array elements

1

2

3

4

5

Sum=1

Sum=3

Sum=6

Sum=10

Sum=15

Program-7:

```
#include <stdio.h>
void main()
{
    int arr[5];
    int i,sum=0;
    printf("Enter the array elements\n");
    for(i=0;i<5;i++)
    {
        scanf("%d",&arr[i]);
    }

    for(i=0;i<5;i++)
    {

        sum+=arr[i];

    }
    printf("Sum=%d\n",sum) ;
}
```

OUTPUT:

Enter the array elements

1

2

3

4

5

Sum=15

Program-8:

```
#include <stdio.h>
void main()
{
    int arr[5];
    int i,sum=0;
    float avg;
    printf("Enter the array elements\n");
    for(i=0;i<5;i++)
    {
        scanf("%d",&arr[i]);
    }

    for(i=0;i<5;i++)
    {
        sum+=arr[i];
    }
    avg=sum/5;
    printf("Sum=%d\tavg=%f\n",sum,avg) ;
}
```

Output:

Enter the array elements

1

2

3

4

5

Sum=15 avg=3.000000