

Code  *at* *Random*
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Programming with Arrays



Programming Using Arrays

1. WAP to input n numbers in an array & find the product of all its elements.
2. WAP to input n numbers in an array & find the average of all its elements.
3. WAP to input n numbers in an array & print all even numbers.
4. WAP to input n numbers in an array & print maximum integer.
5. WAP to input n numbers in an array & print all Prime numbers.
6. WAP to input n numbers in an array & print all Palindrome numbers.
7. WAP to input n numbers in an array & print all Armstrong numbers.

WAP to input n numbers in an array & find the product of all its elements.

```
import java.util.*;
class product {
    public static void main( ) {
        int n, p=1;
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter the number of
elements of the array");
        n = sc.nextInt( );
        int A[ ] = new int[n];
        System.out.println("Enter the elements of the
array");
        for(int i =0; i< n ; i++) {
            A[i] = sc.nextInt( );
        }
        for(int i=0; i<n; i++) {
            p = p*A[i];
        }
        System.out.println(p);
    }
}
```

WAP to input n numbers in an array & find the average of all its elements.

```
import java.util.*;
class average {
    public static void main( ) {
        int n;
        double s=0.0;
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter the size of array");
        n = sc.nextInt( );
        int A[ ] = new int[n];
        System.out.println("Enter the elements of the array");
        for(int i =0; i< n ; i++) {
            A[i] = sc.nextInt( );
        }
        for(int i=0; i<n; i++) {
            s = s + A[i];
        }
        double avg = s/n;
        System.out.println(avg);
    }
}
```

WAP to input n numbers in an array & print all the even numbers.

```
import java.util.*;
class even {
    public static void main( ) {
        int n;
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter the size of the array");
        n = sc.nextInt( );
        int A[ ] = new int[n];
        System.out.println("Enter the elements of the array");
        for(int i =0; i< n ; i++) {
            A[i] = sc.nextInt( );
        }
        for(int i=0; i<n; i++) {
            if(A[i]%2==0)
                System.out.println(A[i]);
        }
    }
}
```

WAP to input n numbers in an array & print the maximum integer.

```
import java.util.*;
class maximum {
    public static void main( ) {
        int n;
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter the size of the array");
        n = sc.nextInt( );
        int A[ ] = new int[n];
        System.out.println("Enter the elements of the array");
        for(int i =0; i< n ; i++) {
            A[i] = sc.nextInt( );
        }
        int max = A[0];
        for(int i=0; i<n; i++) {
            if(A[i]>max)
                max = A[i];
        }
        System.out.println(max);
    }
}
```

WAP to input n numbers in an array & print all the prime numbers

```
import java.util.*;
class prime {
    public static void main( ) {
        int n;
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter the size of the array");
        n = sc.nextInt( );
        int A[ ] = new int[n];
        System.out.println("Enter the elements of the array");
        for(int i=0; i< n ; i++) {
            A[i] = sc.nextInt( );
        }
        for(int i=0; i<n; i++) {
            int c=0;
            for(int j=2;j<A[i];j++) {
                if(A[i]%j==0)
                    c++;
            }
            if(c==0)
                System.out.println(A[i]);
        }
    }
}
```

WAP to input n numbers in an array & print all the palindrome numbers

```
import java.util.*;
class palindrome {
    public static void main( ) {
        int n;
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter the size of the array");
        n = sc.nextInt( );
        int A[ ] = new int[n];
        System.out.println("Enter the elements of the array");
        for(int i=0; i< n ; i++) {
            A[i] = sc.nextInt( );
        }
        for(int i=0; i<n; i++) {
            int r=0;
            int t= A[i];
            while(t>0){
                int d = t%10;
                r = r * 10 + d;
                t = t/10;
            }
            if(r ==A[i])
                System.out.println(A[i]);
        }
    }
}
```

WAP to input n numbers in an array & print all the Armstrong numbers

```
import java.util.*;
class armstrong{
    public static void main( ) {
        int n;
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter the size of the array");
        n = sc.nextInt( );
        int A[ ] = new int[n];
        System.out.println("Enter the elements of the array");
        for(int i =0; i< n ; i++) {
            A[i] = sc.nextInt( );
        }
        for(int i=0; i<n; i++) {
            int s=0;
            int t= A[i];
            while(t>0){
                int d = t% 10;
                s = s + (d*d*d);
                t = t/10;
            }
            if(s ==A[i])
                System.out.println(A[i]);
        }
    }
}
```

Happy Learning!!

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