1 wap to define an array of integer of size 6 .Take input from user and display it in reverse order

```
package lab_5_day_6;
import java.util.*;
public class Print_reverse {

	public static void main(String[] args) {
	 // TODO Auto-generated method stub
 Scanner s=new Scanner (System.in);

  int a[]=new int[6];

  System.out.println("enter the numbers");
  for(int i=0;i<6;i++)
  {
	 a[i]=s.nextInt();
  }
  for(int j=5;j>=0;j--)
	 System.out.print(a[j]);

	}

}
```

2 wap to ask 5 names from user and check if particular name exists in array or not .

```
package lab_5_day_6;
import java.util.*;

public class Check_name {

	public static void main(String[] args) {
		// TODO Auto-generated method stub
	  Scanner s=new Scanner(System.in);int j=0;
	  String name[]=new String [5];
	  System.out.println("enter the names");
	  for(int i=0;i<5;i++)
		name[i]=s.next();
	  System.out.println("Enter the name to be checked");
	  String c=s.next();
	  for( j=0;j<5;j++ )
	  {
		if(name[j].equals(c))
		{
			System.out.println("the name matches");
			break;
		}
	  }
	  if(j==5)
		System.out.println("the name does not match");

	}

}
```

3 wap to define an array of integer and assign value in program and print sum of all values

```
package lab_5_day_6;
import java.util.*;
public class sum_arr {

	public static void main(String[] args) {
		// TODO Auto-generated method stub
		Scanner s=new Scanner (System.in);
	System.out.println("Enter the array size ");
	int a=s.nextInt();
	int ar[]=new int[a];
	System.out.println("enter the numbers");
	for(int i=0;i<a;i++)
	{
	   ar[i]=s.nextInt();
	}
	int sum=0;
	for(int j=0;j<a;j++)
	   sum+=ar[j];
	System.out.println("the sum of array is "+sum);
	 }

}
```

4 wap to print max and minimum value in given array

```
package lab_5_day_6;
import java.util.*;
public class min_max_arr {

	public static void main(String[] args) {
		// TODO Auto-generated method stub
	  Scanner s =new Scanner(System.in);
	  int a[]=new int[6];

	  System.out.println("enter the numbers");
	  for(int i=0;i<6;i++)
	  {
		a[i]=s.nextInt();
	  }
	  int l=a[0],sm=a[0];
	  for(int j=0;j<6;j++)
	  {
		if(l<a[j])
			l=a[j];
		if(sm>a[j])
			sm=a[j];
	  }
	  System.out.println("the largest number is "+l);
	  System.out.println("the smallest number is "+sm);
	 }

}
```

5 wap to find and print even numbers in given array

```
package lab_5_day_6;
import java.util.*;
public class Even_arr {

	public static void main(String[] args) {
		// TODO Auto-generated method stub
		 Scanner s =new Scanner(System.in);
		System.out.println("enter the size of array");
		int tr=s.nextInt();
		 int a[]=new int[tr];

		 System.out.println("enter the numbers");
		 for(int i=0;i<tr;i++)
		 {
			 a[i]=s.nextInt();
		 }
		 System.out.println("the even numbers are ");
		 for(int j=0;j<tr;j++)
		 {
			 if(a[j]%2==0)
				 System.out.println(a[j]);
		 }
	}

}
```

6 wap to find and print prime numbers in given array

```
package lab_5_day_6;
import java.util.*;
public class Prime_arr {
	public static void main(String[] args) {
		// TODO Auto-generated method stub
		 Scanner s =new Scanner(System.in);
		 System.out.println("enter the size of array");
		int tr=s.nextInt();
		 int a[]=new int[tr];

		 System.out.println("enter the numbers");
		 for(int i=0;i<tr;i++)
		 {
			 a[i]=s.nextInt();
		 }
		 int f=0;
		 for(int j=0;j<tr;j++)
		 {
			 for(int l=2;l<a[j]/2;l++)
			 {
				 if(a[j]%l==0)
				 {
					 f++;
					 break;
				 }
				 f=0;
			 }
			 if(f==0)
				 System.out.println(a[j]);
		 }
	}
```

```
}
```

7 wap to search a particular number in given array and print its position

```
package lab_5_day_6;
import java.util.*;
public class Position_arr {

	public static void main(String[] args) {
		// TODO Auto-generated method stub
		 Scanner s =new Scanner(System.in);
		 System.out.println("enter the size of array");
		int tr=s.nextInt();
		 int a[]=new int[tr];

		 System.out.println("enter the numbers");
		 for(int i=0;i<tr;i++)
		 {
			 a[i]=s.nextInt();
		 }
		 System.out.println("enter the number to be searched");
			int f=s.nextInt();
			for(int j=0;j<tr;j++)
			{
			   if(f==a[j])
				   System.out.println("the number is found at position
"+(j+1));
			}
	}

}
```

8 wap to reverse a given array

```
package lab_5_day_6;
import java.util.*;
import java.util.Scanner;

public class Reverse_arr {

	public static void main(String[] args) {
		Scanner s=new Scanner (System.in);

		  int a[]=new int[6];

		  System.out.println("enter the numbers");
		  for(int i=0;i<6;i++)
		  {
			  a[i]=s.nextInt();
		  }
		  for(int j=5;j>=0;j--)
			   System.out.print(a[j]+" ");


	}

}
```

9 wap to define two 3 * 3 matrix .ask values from user and print their sum in third matrix of same size

```
package lab_5_day_6;
import java.util.*;
public class TwoDmatrix_sum {

	public static void main(String[] args) {
		Scanner s=new Scanner(System.in);
		int a[][]=new int [2][3];
		int b[][]=new int [2][3];
		int c[][]=new int [2][3];
		for(int l=1;l<=2;l++)
		{
		System.out.println("enter the values of matrix " +l);
		for(int i=0;i<2;i++)
		{
			for(int j=0;j<3;j++)
			{
				System.out.println("enter a number");
				if(l==1)
				a[i][j]=s.nextInt();
				else
				b[i][j]=s.nextInt();
			}
		}
		}
		for(int m=0;m<2;m++)
		{
			for(int n=0;n<3;n++)
			{
				c[m][n]=a[m][n]+b[m][n];
			}
		}
		for(int m2=0;m2<2;m2++)
		{
			for(int n2=0;n2<3;n2++)
			{
				System.out.print(a[m2][n2]+" ");
			}
			System.out.println();
		}
		System.out.println();
		for(int m3=0;m3<2;m3++)
		{
			for(int n3=0;n3<3;n3++)
			{
				System.out.print(b[m3][n3]+" ");
			}
			System.out.println();
		}
		System.out.println();
		for(int m1=0;m1<2;m1++)
		{
			for(int n1=0;n1<3;n1++)
			{
				System.out.print(c[m1][n1]+" ");
			}
			System.out.println();
		}
```

```
	}

}
```

10 wap to sort an array using bubble sort

```
package lab_5_day_6;
import java.util.*;
public class Bubble_sort {

	public static void main(String[] args) {
		int a[]= {78,56,21,79,45,7,9,52,36,2};
		int c=0;
		for(int i=1;i<a.length;i++)
		{
			for(int j=0;j<a.length-1;j++)
			{
				if(a[j]>a[j+1])
				{
					c=a[j];
					a[j]=a[j+1];
					a[j+1]=c;
				}

			}
		}
		for(int j:a)
			System.out.print(j+" ");

	}

}
```

11wap to search a particular element in given array using binary search technique

```
package lab_6_day8;
import java.util.*;
public class Binary_search {

	public static void main(String[] args) {
		Scanner s =new Scanner(System.in);
		System.out.println("Enter the size of array");
		int siz=s.nextInt();
		int a[]=new int [siz];
		System.out.println("enter the array numbers");
		for(int i=0;i<siz;i++)
			a[i]=s.nextInt();

		Arrays.sort(a);
		for(int j:a)
			System.out.print(" "+j);
		System.out.println();
		System.out.println("enter the number to be searched");
		int key=s.nextInt();
		int first=0,last=a.length-1;

		int mid=(first+last)/2;
```

```
            while(first<=last)
            {
                  if( a[mid] == key)
                  {
                        System.out.println("record found");
                        break;
                  }
                else if(a[mid]>key)
                        last=mid-1;
                  else if(a[mid]<key)
                        first=mid+1;
                  mid=(first+last)/2;

            }
            if(first>last)
                  System.out.println("record not found");


      }

}
```

12 wap to find the largest element in one dimensional array

```
package lab_5_day_6;

import java.util.Scanner;

public class Largest_element_1d_arr {

      public static void main(String[] args) {
            Scanner s=new Scanner (System.in);
            System.out.println("Enter the array size ");
            int a=s.nextInt();
            int ar[]=new int[a];
            System.out.println("enter the numbers");
            for(int i=0;i<a;i++)
            {
               ar[i]=s.nextInt();
            }
            int l=ar[0];
            for(int i=0;i<a;i++)
            {
               if(ar[i]>l)
                     l=ar[i];

            }
            System.out.println("the largest number in array is "+l);

      }

}
```

13 wap to find largest element in each row in two dimensional array

```
package lab_5_day_6;
```

```java
import java.util.Scanner;

public class Lagest_element_2d_row {

	public static void main(String[] args) {
		Scanner s=new Scanner(System.in);

		System.out.println("enter the number of rows");
		int r=s.nextInt();
		System.out.println("enter the number of columns");
		int c=s.nextInt();
		int a[][]=new int [r][c];
		for(int i=0;i<r;i++)
		{
			System.out.println("enter the elements of row "+(i+1));
			for(int j=0;j<c;j++)
				a[i][j]=s.nextInt();
		}
		int row=r;
		for(int i1=0;i1<row;i1++)
		{
			r=a[i1][0];
			for(int j1=0;j1<c;j1++)
				if(a[i1][j1]>r)
					r=a[i1][j1];
			System.out.println("the largest element of row "+(i1+1)+" is
"+r);

		}

	}

}
```