```java
package basic;
import java.util.*;
public class SwapWithoutThirdVar {

	public static void main(String[] args) {
		// TODO Auto-generated method stub

		int a=10,b=20;

		System.out.println("Before Swap a= "+a +" b= "+b);

//		a=a+b;//a=30
//		b=a-b;//b=10
//		a=a-b;//a=20

		a=a^b;
		b=a^b;
		a=a^b;

		System.out.println("After Swap a= "+a +" b= "+b);

	}

}
//Before Swap a= 10 b= 20
//After Swap a= 20 b= 10
```

```java
package basic;
import java.util.*;
public class FibbonacciSeries {

	public static void main(String[] args) {
		// TODO Auto-generated method stub

		int n1=0,n2=1,n3,num;

		System.out.println("Enter a num :");
		Scanner sc=new Scanner(System.in);
		num=sc.nextInt();
		System.out.print(n1+" "+n2+" ");

		for(int i=2;i<num;i++){

			n3=n1+n2;
			System.out.print(n3+" ");
			n1=n2;
```

```
                n2=n3;
            }

      }

}
//Enter a num :
//10
//0 1 1 2 3 5 8 13 21 34
```

```
package basic;
import java.util.*;
public class FibbonacciUsingRecursion {

      static int n1=0,n2=1,n3;

      public static void printFibonacci(int n){//8

            if(n>0){

                  n3=n1+n2;
                  System.out.print(n3+" ");//1 2 3 5 8 13 21 34
                  n1=n2;
                  n2=n3;

                  printFibonacci(n-1);//7 6 5 4 3 2 1 0
            }
      }

      public static void main(String[] args) {
            // TODO Auto-generated method stub
            int num;
            System.out.println("Enter a num :");
            Scanner sc=new Scanner(System.in);
            num=sc.nextInt();//10

            System.out.print(n1+" "+n2+" ");
            printFibonacci(num-2);//beacuse 2 numbers already printed
//8

      }

}

//Enter a num :
//10
```

```
//0 1 1 2 3 5 8 13 21 34



package basic;
import java.util.*;
public class PrimeNumber {

	public static void main(String[] args) {
		// TODO Auto-generated method stub
		int n,flag=0;

		System.out.println("Enter the number to check prime: ");
		Scanner sc=new Scanner(System.in);
		n=sc.nextInt();


		for(int i=2;i<=n/2;i++){
			if(n%i==0){
				System.out.print("Not prime");
				flag=1;
				break;

			}
		}
		if(flag==0){
			System.out.print("prime "+ n);
		}

	}

}
//Enter the number to check prime:
//3
//prime 3



package basic;
import java.util.*;
public class Palindrome {

	public static void main(String[] args) {
		// TODO Auto-generated method stub

		int n,r,sum=0,temp=0;

		System.out.println("Enter a num :");
```

```
            Scanner sc=new Scanner(System.in);
            n=sc.nextInt();

            temp=n;
            while(n>0){

                  r=n%10;
                  sum=(sum*10)+r;
                  n=n/10;
            }
            if(temp==sum){
                  System.out.println("Palindrome");
            }
            else{
                  System.out.println("Not Palindrome");
            }

      }

}

//Enter a num :
//121
//Palindrome



package basic;
import java.util.*;
public class Factorial {

      public static void main(String[] args) {
            // TODO Auto-generated method stub
            int n,fact=1;

            System.out.println("Enter the number: ");
            Scanner sc=new Scanner(System.in);
            n=sc.nextInt();

            for(int i=1;i<=n;i++){
                  fact=fact*i;
            }
            System.out.println("factorial of "+n+" is "+fact);

      }

}
//Enter the number:
```

```
//5
//factorial of 5 is 120



package basic;
import java.util.*;
public class FactorialUsingRecursion {

	public static long factorial(int n){

		if(n==0)
			return 1;

		else
			return (n*factorial(n-1));
	}

	public static void main(String[] args) {
		// TODO Auto-generated method stub
		int n;

		System.out.println("Enter the number: ");
		Scanner sc=new Scanner(System.in);
		n=sc.nextInt();

		System.out.println("factorial of "+n+" is
"+factorial(n));
	}

}
//Enter the number:
//4
//factorial of 4 is 24



package basic;
import java.util.*;
public class ArmstrongNumber {

	public static void main(String[] args) {
		// TODO Auto-generated method stub

		int n,r,sum=0,temp;

		System.out.println("Enter the number: ");
		Scanner sc=new Scanner(System.in);
```

```
            n=sc.nextInt();

            temp=n;
            while(n>0){
                  r=n%10;
                  sum=sum+(r*r*r);
                  n=n/10;
            }
            if(temp==sum){
                  System.out.println("Armstrong numberrrrr");
            }
            else{
                  System.out.println("no");
            }

      }

}
//Enter the number:
//153
//Armstrong numberrrrr



package basic;
import java.util.*;
public class ReverseANumber {

      public static void main(String[] args) {
            // TODO Auto-generated method stub

            int n,rev=0,rem;

            System.out.println("Enter the number: ");
            Scanner sc=new Scanner(System.in);
            n=sc.nextInt();

            while(n!=0){

                  rem=n%10;
                  rev=rev*10+rem;
                  n=n/10;
            }
            System.out.println("Reversed Number "+rev);

      }

}
```

```java
//Enter the number:
//123
//Reversed Number 321


package basic;

public class CountOfDigits {

	public static void main(String[] args) {
		// TODO Auto-generated method stub

		int n=123;
		int c=0;

		while(n>0){

			n=n/10;
			c++;

		}
		System.out.print(c);

	}

}
//3




package basic;
import java.util.*;
public class CountEvenAndOddDigits {

	public static void main(String[] args) {
		// TODO Auto-generated method stub

		int n=1234;

		int evenCount=0;
		int oddCount=0;

		while(n>0){

			int rem=n%10;
			if(rem%2==0){
				evenCount++;
			}
```

```
                else{
                      oddCount++;
                }
                n=n/10;
          }
          System.out.println("evenCount "+evenCount);
          System.out.println("oddCount "+oddCount);

     }
}
//evenCount 2
//oddCount 2
```

```
package basic;
import java.util.*;
public class SumOfDigits {

     public static void main(String[] args) {
          // TODO Auto-generated method stub

          int n=1234;
          int sum=0;

          while(n>0){
                sum=sum+n%10;// 4+3+2+1
                n=n/10;
          }
          System.out.println("Sum Of Digits "+sum);
     }

}
//Sum Of Digits 10
```

```
package basic;
import java.util.*;
public class EvenNumberFromArray {

     public static void main(String[] args) {
          // TODO Auto-generated method stub

          int a[]={1,2,3,4,5,6};

          System.out.println("even elements ");
```

```
            for(int i=0;i<a.length;i++){

                  if(a[i]%2==0){

                        System.out.print(a[i]+" ");
                  }
            }
            System.out.println();
            System.out.println("odd elements ");

            for(int i=0;i<a.length;i++){

                  if(a[i]%2!=0){

                        System.out.print(a[i]+" ");

                  }
            }
            }
}
//even elements
//2 4 6
//odd elements
//1 3 5



package basic;

public class RemoveSpecialChar {

      public static void main(String[] args) {
            // TODO Auto-generated method stub

            //String s="isandas4325#$666666666666663%^$#$&%$&^%*";
            //s=s.replaceAll("[^a-zA-Z0-9]", "");

            String s="hello worls hi ";
            s=s.replaceAll("\\s", "");

            System.out.println(s);

      }

}
//isandas4325666666666666663
//helloworlshi
```