

```
//1 1 2 3
import java.util.*;
public class Fib {
    public static void main(String[]
args) {
        int f1=1, f2=1, f3,num;
        Scanner s = new
Scanner(System.in);
        System.out.print("Enter the
number: ");
        num = s.nextInt();

        System.out.print(f1+ " "+f2+" ");
        for(int i=3;i<=num;i++) {
            f3=f1+f2; //f3=2
            System.out.print(f3+" ");
            f1=f2; //f1=1
            f2=f3; //f2=2
        }
    }
}
```

```
//Square root program
import java.util.Scanner;
public class for_each {
    public static void main(String[]
args) {
        int n=25;
```

```
System.out.println((int)Math.sqrt(n));
```

```
    }  
}
```

```
/*
```

```
11 - by 1 and disible by itself and its  
not  
divisible by any of the in-between  
numbers
```

```
11 - 2,3,4,5,6,7,8,9,10 - n/2
```

```
*/
```

```
import java.util.Scanner;
```

```
public class Prime_num {
```

```
    public static void main(String[]  
args) {
```

```
    int num,prime=2,flag;
```

```
    Scanner s= new Scanner(System.in);
```

```
    System.out.print("Enter the number: ");
```

```
    num = s.nextInt();
```

```
    for(int i=1;i<=num;i++) {
```

```
        flag=0;
```

```
        for(int j=2;j<=prime/2;j++) {
```

```
            if(prime%j==0) {
```

```
                flag=1;
```

```
                break;
```

```
            }
```

```
        }
```

```

        if(flag==0 & prime!=1) {
            System.out.print(" "+prime+
+);
        }
        else {
            i--;
            prime++;
        }
    }
}

```

//Palindrome

//Input: 121 Output: Palindrome

```
import java.util.Scanner;
```

```

public class Perfect_num {
    public static void main(String[]
args) {
Scanner s =new Scanner(System.in);
int num , reverse =0,r , temp;
System.out.print("Enter the number: ");
num = s.nextInt();
temp = num;
while(num!=0) {
    r = num%10;
    num = num/10;
    reverse = r + reverse*10;
}
if(temp == reverse)

```

```
        System.out.println("Palindrome");  
else  
        System.out.println("Not Palindrome");  
    }  
}
```

//Tech number

```
import java.util.Scanner;  
public class Tech_Number {  
  
    public static void main(String[] args) {  
        int num,f1,f2,result;  
        Scanner s = new Scanner(System.in);  
        System.out.print("Enter the number :  
");  
        num = s.nextInt();  
        String str = String.valueOf(num);  
        if(str.length()==4) {  
            f1=num%100;  
            f2=num/100;  
            result = (f1+f2)*(f1+f2);  
            if(result == num)  
                System.out.println("Tech number");  
            else  
                System.out.println("Not a Tech  
number");  
        }  
        else  
            System.out.println("Not a valid  
number");  
    }  
}
```

```
}
```

```
}
```

```
//Example for Class and Object  
public class Local_var {
```

```
    static int x=30;    //static/Class  
    variable
```

```
    int a=10;          //instance variable
```

```
    void add() {
```

```
        int b=20;    //local variable
```

```
        System.out.println("Addition =" +  
        (a+b));  
    }
```

```
    public static void main(String[]  
args) {
```

```
        Local_var lv=new Local_var();
```

```
        System.out.println("a = "+lv.a);  
        lv.add();  
        //add();
```

```
        System.out.println("x = "+x);
```

```
    }
```

```
}
```