

Code : 1

```
package Topic_01_GettingStartedBasics;
```

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

```
public class A_IsANumberPrime_1 {  
    public static void main(String[] args) {  
        Scanner scn = new Scanner(System.in);  
        int t = scn.nextInt();  
        for (int i = 0; i < t; i++) {  
            CheckPrimeWithDisplay(scn.nextInt());  
        }  
    }  
  
    static void CheckPrimeWithDisplay(int number) {  
        int flag = 0;  
        for (int i = 2; i < number; i++) {  
            if (number % i == 0) {  
                flag = 1;  
                break;  
            }  
        }  
        if (flag == 0) {  
            System.out.println("prime");  
        } else {  
            System.out.println("not prime");  
        }  
    }  
}
```

Code : 2

```
package Topic_01_GettingStartedBasics;
```

```
import java.util.*;
```

```
public class B_PrintAllPrimesTillN_2 {
```

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

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

```
        int low = s.nextInt();
```

```
        int high = s.nextInt();
```

```
        PrintPrimeNumbersBetweenRange(low, high);
```

```
    }
```

```
    static void PrintPrimeNumbersBetweenRange(int low, int high) {
```

```
        for (int i = low; i <= high; i++) {
```

```
            int flag = CheckPrime(i);
```

```
            if (flag == 0)
```

```
                System.out.println(i);
```

```
        }
```

```
    }
```

```
    static int CheckPrime(int number) {
```

```
        int isPrime = 0;
```

```
        for (int i = 2; i*i <= number; i++) {
```

```
            if (number % i == 0) {
```

```
                isPrime = 1;
```

```
                break;
```

```
            }
```

```
        }
```

```
        return isPrime;
```

```
    }
```

```
}
```

Code : 3

```
package Topic_01_GettingStartedBasics;
```

```
import java.util.*;
```

```
public class C_PrintAllFibTillN_3 {  
    public static void main(String[] args) {  
        Scanner s = new Scanner(System.in);  
        PrintFibonacciNumbersUptoValue_N(s.nextInt());  
    }  
  
    static void PrintFibonacciNumbersUptoValue_N(int n) {  
        int a = 0;  
        int b = 1;  
        int c = 0;  
        for (int i = 0; i < n; i++) {  
            System.out.println(a);  
            c = a + b;  
            a = b;  
            b = c;  
        }  
    }  
}
```

Code : 4

```
package Topic_01_GettingStartedBasics;
```

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

```
public class D_CountDigitsInANumber_4 {  
    public static void main(String[] args) {  
        Scanner s = new Scanner(System.in);  
        int n = s.nextInt();  
        CountDigitsInANumber(n);  
    }  
  
    static void CountDigitsInANumber(int number) {  
  
        int c = 0;  
        while (number != 0) {  
            number = number / 10;  
            c++;  
        }  
        System.out.println(c);  
    }  
}
```

Code : 5

```
package Topic_01_GettingStartedBasics;
```

```
import java.util.*;
```

```
public class E_DisplayDigitOfANumber_5 {  
    public static void main(String[] args) {  
        Scanner sc = new Scanner(System.in);  
        int n = sc.nextInt();  
        int countDigits = countDigits(n);  
        int div = (int) Math.pow(10, countDigits - 1);  
        while (div != 0) {  
            int q = n / div;  
            System.out.println(q);  
            n = n % div;  
            div = div / 10;  
        }  
    }  
  
    static int countDigits(int n) {  
        int count = 0;  
        while (n != 0) {  
            n = n / 10;  
            count++;  
        }  
        return count;  
    }  
}
```

Code : 6

```
package Topic_01_GettingStartedBasics;
```

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

```
public class E_InverseOfANumber {
```

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

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

```
        int number = s.nextInt();
```

```
        System.out.println(inverse_of_a_number(number));
```

```
    }
```

```
    static int inverse_of_a_number(int number) {
```

```
        int count = 1;
```

```
        int rem;
```

```
        int ans = 0;
```

```
        while (number != 0) {
```

```
            rem = number % 10;
```

```
            number = number / 10;
```

```
            ans = ans + count * ((int) Math.pow(10, rem - 1));
```

```
            count++;
```

```
        }
```

```
        return ans;
```

```
    }
```

```
}
```

Code : 7

```
package Topic_01_GettingStartedBasics;
```

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

```
public class F_ReverseOfANumber_6 {
```

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

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

```
        int n = s.nextInt();
```

```
        ReverseNumber(n);
```

```
    }
```

```
    static void ReverseNumber(int n) {
```

```
        int temp = 0;
```

```
        while (n != 0) {
```

```
            temp = n % 10;
```

```
            System.out.println(temp);
```

```
            n = n / 10;
```

```
        }
```

```
    }
```

```
}
```

Code : 8

```
package Topic_01_GettingStartedBasics;
```

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

```
public class F_RotateANumber {
```

```
    public static void main(String[] args) {  
        Scanner s = new Scanner(System.in);  
        int number = s.nextInt();  
        int howMuchToRotate = s.nextInt();  
        rotateANumber(number, howMuchToRotate);  
    }
```

```
    static void rotateANumber(int n, int howMuchToRotate) {  
        int nod = countDigits(n);  
        int k = howMuchToRotate;  
        k = k % nod;  
        if (k < 0) {  
            k = k + nod;  
        }  
  
        int div = (int) Math.pow(10, k);  
        int mult = (int) Math.pow(10, nod - k);  
  
        int q = n / div;  
        int r = n % div;  
        int ans = r * mult + q;  
        System.out.println(ans);  
    }
```

```
    static int countDigits(int number) {  
        int c = 0;  
        while (number != 0) {  
            number = number / 10;  
            c++;  
        }  
        return c;  
    }
```

```
}
```


Code : 9

```
package Topic_01_GettingStartedBasics;
```

```
import java.util.*;
```

```
public class G_GCDAndLCM {
```

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

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

```
        int n1 = scn.nextInt();
```

```
        int n2 = scn.nextInt();
```

```
        int temp1 = n1;
```

```
        int temp2 = n2;
```

```
        while(temp1 % temp2 != 0){
```

```
            int rem = temp1 % temp2;
```

```
            temp1 = temp2;
```

```
            temp2 = rem;
```

```
        }
```

```
        int gcd = temp2;
```

```
        int lcm = (n1 * n2) / gcd;
```

```
        System.out.println(gcd);
```

```
        System.out.println(lcm);
```

```
    }
```

```
}
```

Code : 10

```
package Topic_01_GettingStartedBasics;
```

```
import java.util.*;
```

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

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

```
        int n = scn.nextInt();
```

```
        for(int div = 2; div * div <= n; div++){
```

```
            while(n % div == 0){
```

```
                System.out.print(div + " ");
```

```
                n = n / div;
```

```
            }
```

```
        }
```

```
        if(n > 1){
```

```
            System.out.print(n);
```

```
        }
```

```
    }
```

```
}
```

Code : 11

```
package Topic_01_GettingStartedBasics;
```

```
import java.util.*;
```

```
public class I_CaseOfBenjaminBulb {  
    public static void main(String[] args) {  
        Scanner sc = new Scanner(System.in);  
        int n = sc.nextInt();  
        for (int i = 1; i * i <= n; i++) {  
            System.out.println(i * i);  
        }  
    }  
}
```

Code : 12

```
package Topic_01_GettingStartedBasics;
```

```
import java.util.*;
```

```
public class J_PythagoreanTriplet {
```

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

```
        // write your code here
```

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

```
        int a = scn.nextInt();
```

```
        int b = scn.nextInt();
```

```
        int c = scn.nextInt();
```

```
        int max = a;
```

```
        max = b > max ? b : a;
```

```
        max = c > max ? c : a;
```

```
        if (max == a) {
```

```
            if ((a * a) == (b * b) + (c * c)) {  
                System.out.println(true);
```

```
            } else {  
                System.out.println(false);
```

```
            }
```

```
        } else if (max == b) {
```

```
            if ((b * b) == (a * a) + (c * c)) {  
                System.out.println(true);
```

```
            } else {  
                System.out.println(false);
```

```
            }
```

```
        } else {
```

```
            if ((c * c) == (b * b) + (a * a)) {  
                System.out.println(true);
```

```
            } else {  
                System.out.println(false);
```

```
            }
```

```
        }
```

```
    }
```

```
}
```

