

NAME: AKASH RAT PATEL

ENR: A70405221051

LabWork 2

DATE		
PAGE NO.		

Q. Read numbers using commandline arguments and identify how many numbers are out of the following.

i). Prime Numbers

ii). Even Numbers

Also print the total numbers entered by the user. Further do not create any new array.

sol: import java.io.\*;

public class primeEvenNumbers {

public static boolean isPrime (int num) {

int i;

boolean isPrime;

isPrime = true;

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

if (num == 0) {

isPrime = false;

break;

};

if (num % i == 0) {

isPrime = false;

break;

};



```

    }
    return isprime;
}

```

```

public static void main (String[] Args) {

```

```

    int l;

```

```

    l = Args.length;

```

```

    if (l > 0) {

```

```

        try {

```

```

            int i, num, numPrime, numEven;

```

```

            numPrime = 0;

```

```

            numEven = 0;

```

```

            System.out.println("\n Array Input: ");

```

```

            for (i = 0; i < l; i++) {

```

```

                num = Integer.parseInt (Args [i]);

```

```

                if (isPrime(num)) {

```

```

                    numPrime++;

```

```

                }

```

```

                if (num % 2 == 0) {

```

```

                    numEven++;

```

```

                }

```

```

                System.out.println (num + " ");

```

```

            }

```



```
// Num of Prime And Even
System.out.println("In Number of Even: " + numEven);
```

```
// Num of Prime
System.out.println("In Number of Prime: " + numPrime);
```

```
} catch (Exception e) {
```

```
    //error message
```

```
    System.out.println("In Error: In " + e);
```

```
}
```

```
}
```

```
}
```

```
}
```