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| **Date: 10/2/2022** | **Lab No: 4** |

**Program:**

import java.util.Scanner;

public class Primes {

private int a;

private int b;

public Primes(int a, int b) {

this.a = a;

this.b = b;

}

public int getA() {

return a;

}

public void setA(int a) {

this.a = a;

}

public int getB() {

return b;

}

public void setB(int b) {

this.b = b;

}

private boolean pno(int num) {

if (num <= 1) {

return false;

}

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

if (num % i == 0) {

return false;

}

}

return true;

}

public void isPrime() {

if (!pno(a) && !pno(b)) {

System.out.println(0);

} else if (pno(a) && !pno(b)) {

System.out.println(1);

} else if (!pno(a) && pno(b)) {

System.out.println(2);

} else if (pno(a) && pno(b)) {

if (Math.abs(a - b) == 2) {

System.out.println(4);

} else {

System.out.println(3);

}

}

}

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

int a = sc.nextInt();

int b = sc.nextInt();

Primes p = new Primes(a, b);

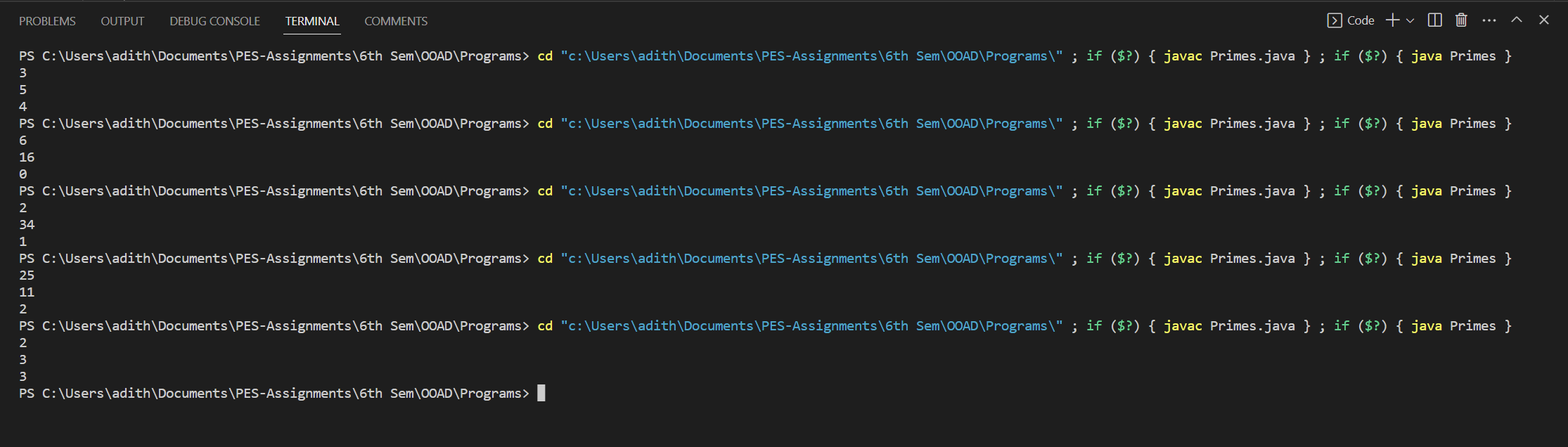
p.isPrime();

sc.close();

}

}

**Output:**

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