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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);
```

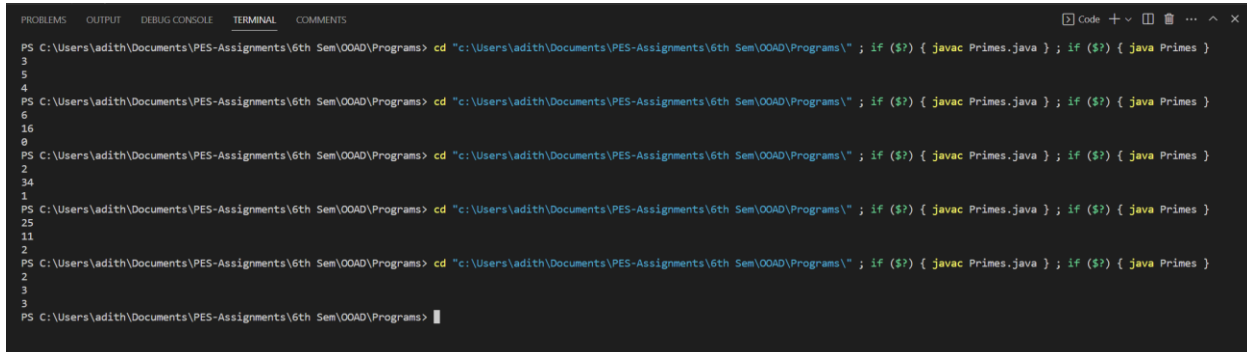
```
        } else if (!pno(a) && pno(b)) {
```

```
            System.out.println(2);
```

OOAD with JAVA: Week – 1

```
} 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:



```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL COMMENTS  
PS C:\Users\adith\Documents\PES-Assignments\6th Sem\OOAD\Programs> cd "c:\Users\adith\Documents\PES-Assignments\6th Sem\OOAD\Programs\" ; if ($?) { javac Primes.java } ; if ($?) { java Primes }  
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PS C:\Users\adith\Documents\PES-Assignments\6th Sem\OOAD\Programs> cd "c:\Users\adith\Documents\PES-Assignments\6th Sem\OOAD\Programs\" ; if ($?) { javac Primes.java } ; if ($?) { java Primes }  
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PS C:\Users\adith\Documents\PES-Assignments\6th Sem\OOAD\Programs> cd "c:\Users\adith\Documents\PES-Assignments\6th Sem\OOAD\Programs\" ; if ($?) { javac Primes.java } ; if ($?) { java Primes }  
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PS C:\Users\adith\Documents\PES-Assignments\6th Sem\OOAD\Programs> cd "c:\Users\adith\Documents\PES-Assignments\6th Sem\OOAD\Programs\" ; if ($?) { javac Primes.java } ; if ($?) { java Primes }  
2  
3  
3  
PS C:\Users\adith\Documents\PES-Assignments\6th Sem\OOAD\Programs>
```