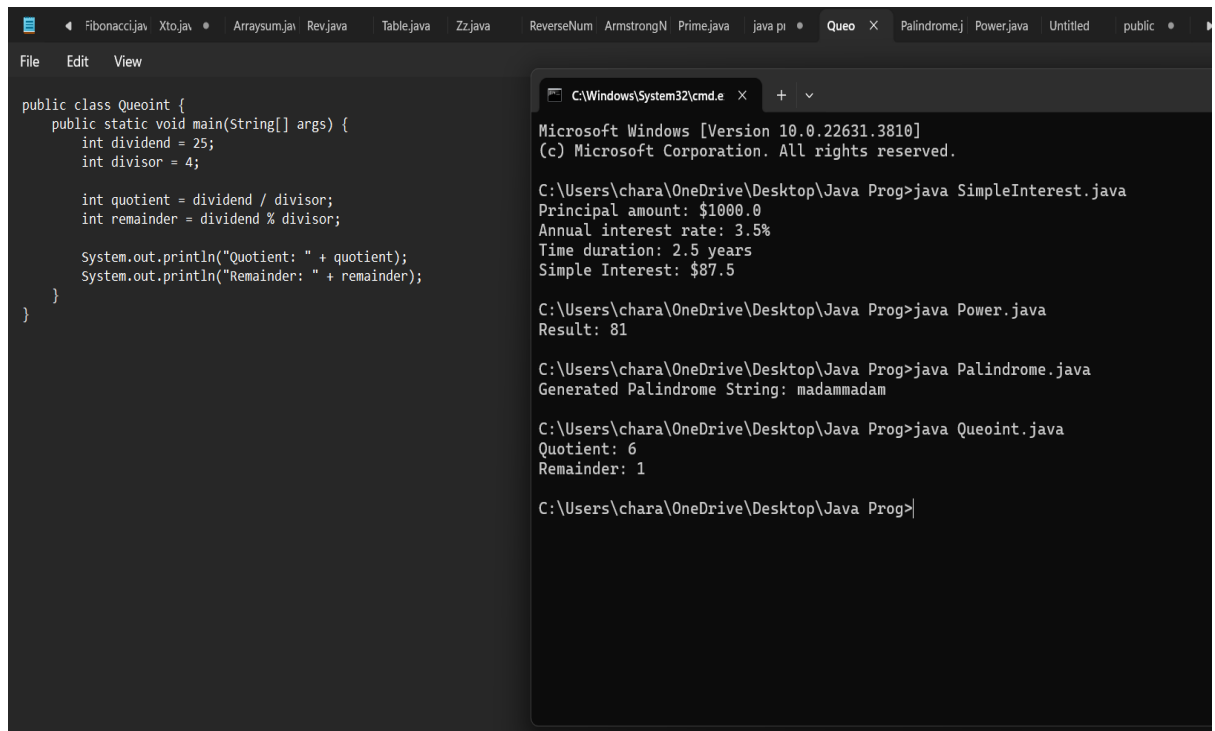


# 1) Queoint and remainder



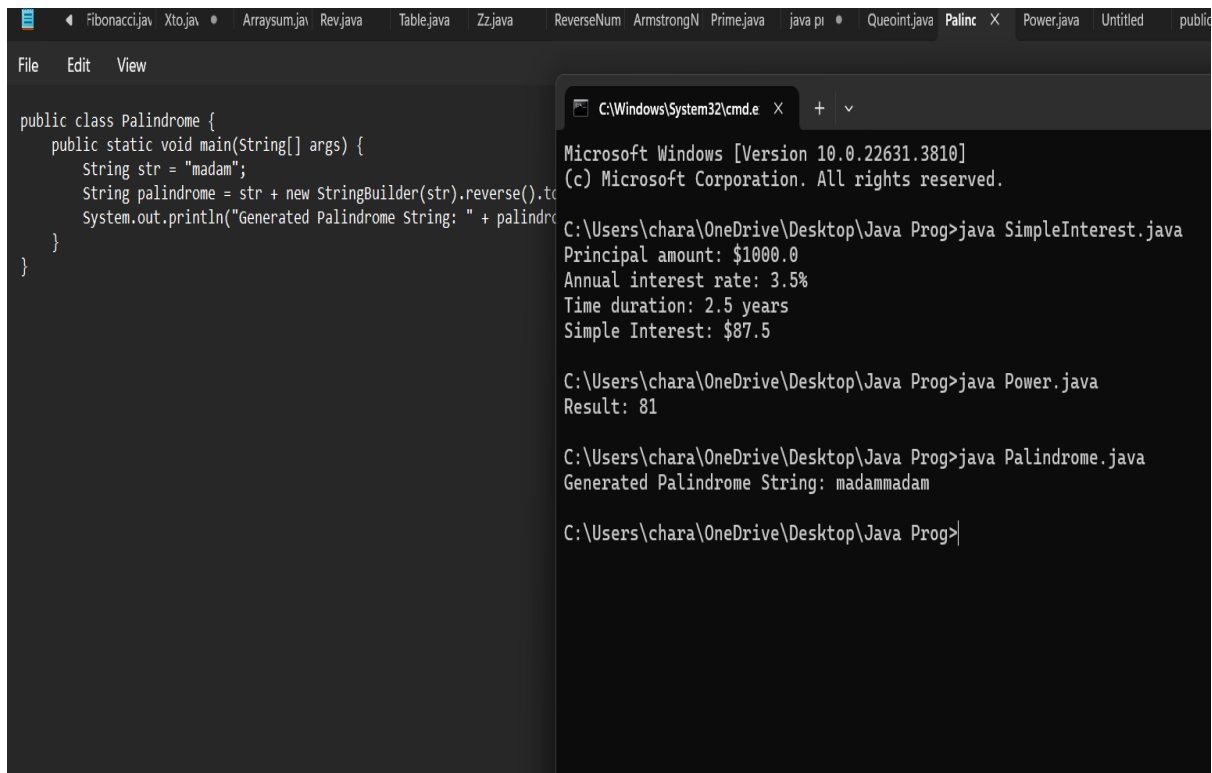
The screenshot shows an IDE with a file explorer at the top displaying various Java files. The main editor window shows the code for `Queoint.java`:

```
public class Queoint {  
    public static void main(String[] args) {  
        int dividend = 25;  
        int divisor = 4;  
  
        int quotient = dividend / divisor;  
        int remainder = dividend % divisor;  
  
        System.out.println("Quotient: " + quotient);  
        System.out.println("Remainder: " + remainder);  
    }  
}
```

To the right, a terminal window titled `C:\Windows\System32\cmd.e` shows the execution of several Java programs:

```
Microsoft Windows [Version 10.0.22631.3810]  
(c) Microsoft Corporation. All rights reserved.  
  
C:\Users\chara\OneDrive\Desktop\Java Prog>java SimpleInterest.java  
Principal amount: $1000.0  
Annual interest rate: 3.5%  
Time duration: 2.5 years  
Simple Interest: $87.5  
  
C:\Users\chara\OneDrive\Desktop\Java Prog>java Power.java  
Result: 81  
  
C:\Users\chara\OneDrive\Desktop\Java Prog>java Palindrome.java  
Generated Palindrome String: madammadam  
  
C:\Users\chara\OneDrive\Desktop\Java Prog>java Queoint.java  
Quotient: 6  
Remainder: 1  
  
C:\Users\chara\OneDrive\Desktop\Java Prog>
```

# 2) Palindrome



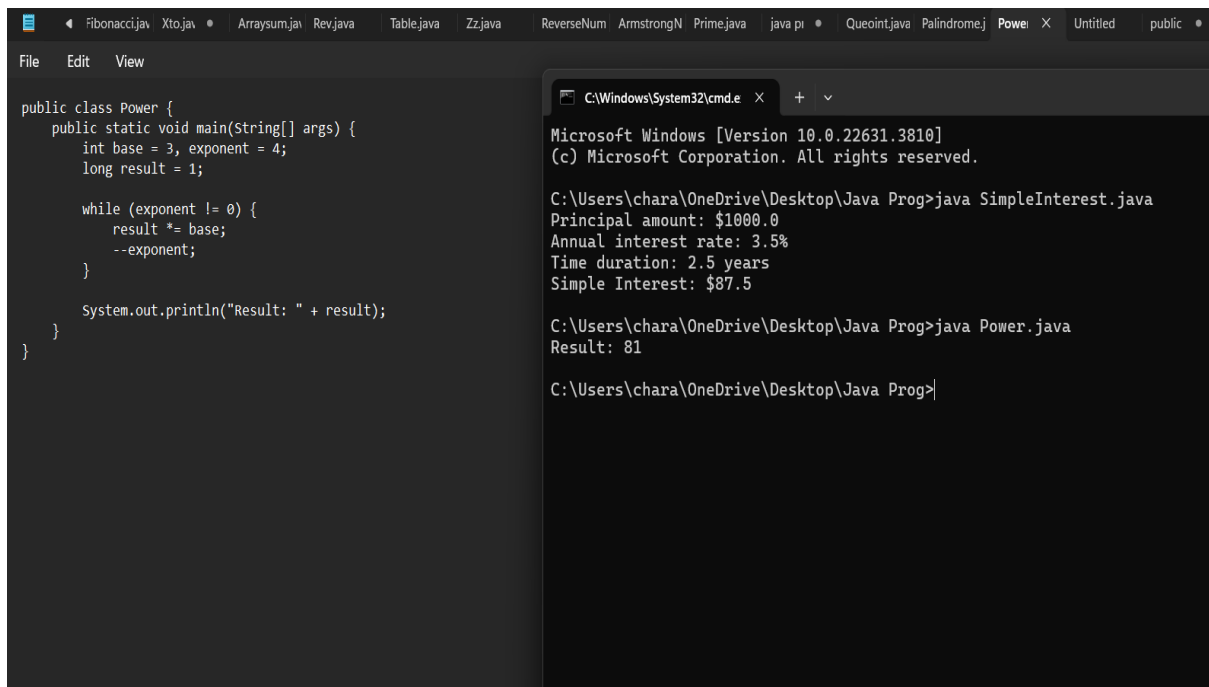
The screenshot shows an IDE with a file explorer at the top. The main editor window shows the code for `Palindrome.java`:

```
public class Palindrome {  
    public static void main(String[] args) {  
        String str = "madam";  
        String palindrome = str + new StringBuilder(str).reverse().toString();  
        System.out.println("Generated Palindrome String: " + palindrome);  
    }  
}
```

To the right, a terminal window titled `C:\Windows\System32\cmd.e` shows the execution of several Java programs:

```
Microsoft Windows [Version 10.0.22631.3810]  
(c) Microsoft Corporation. All rights reserved.  
  
C:\Users\chara\OneDrive\Desktop\Java Prog>java SimpleInterest.java  
Principal amount: $1000.0  
Annual interest rate: 3.5%  
Time duration: 2.5 years  
Simple Interest: $87.5  
  
C:\Users\chara\OneDrive\Desktop\Java Prog>java Power.java  
Result: 81  
  
C:\Users\chara\OneDrive\Desktop\Java Prog>java Palindrome.java  
Generated Palindrome String: madammadam  
  
C:\Users\chara\OneDrive\Desktop\Java Prog>
```

### 3) Power

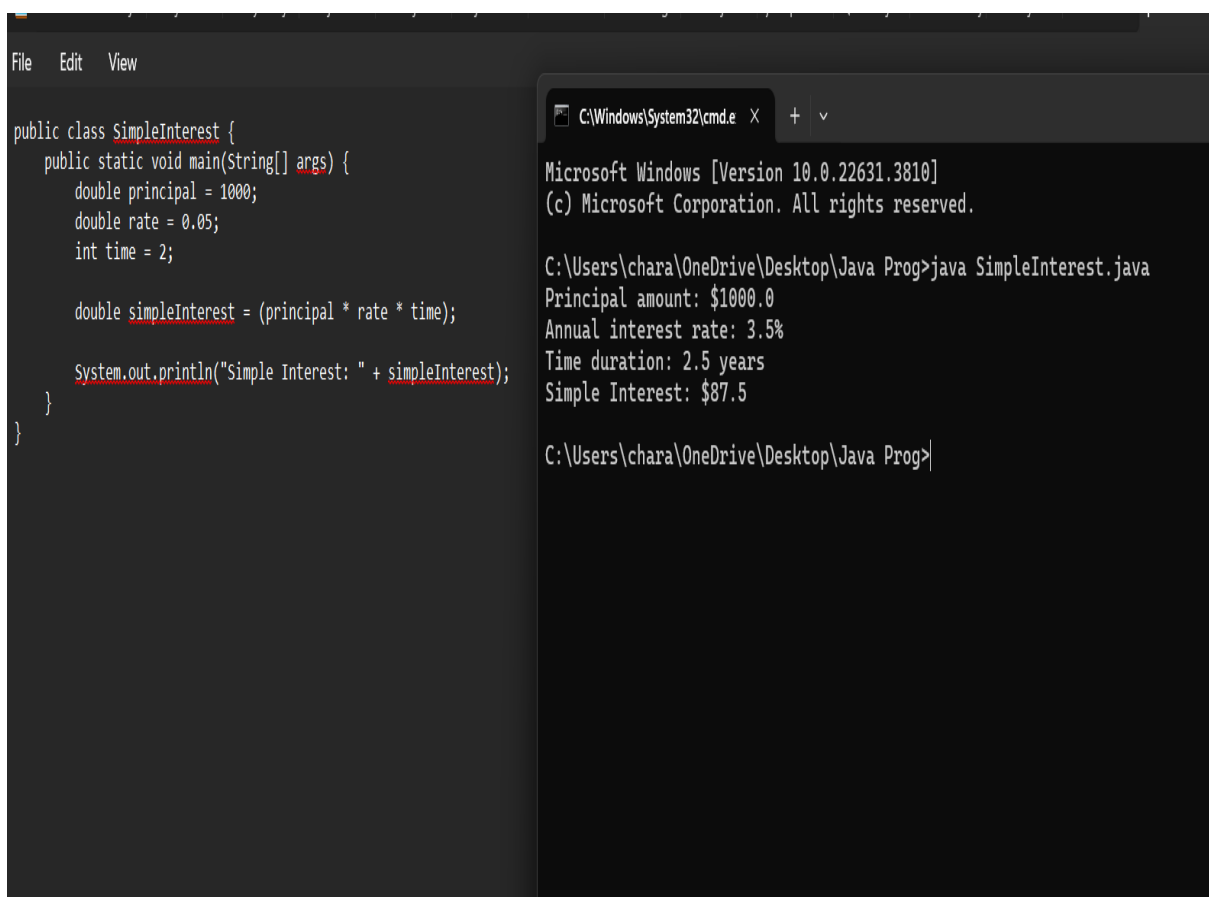


The screenshot shows an IDE with a file explorer at the top listing various Java files. The main editor displays the code for `Power.java`. To the right, a command prompt window shows the execution of `Power.java`, which outputs the result 81.

```
public class Power {  
    public static void main(String[] args) {  
        int base = 3, exponent = 4;  
        long result = 1;  
  
        while (exponent != 0) {  
            result *= base;  
            --exponent;  
        }  
  
        System.out.println("Result: " + result);  
    }  
}
```

```
C:\Windows\System32\cmd.e x + v  
Microsoft Windows [Version 10.0.22631.3810]  
(c) Microsoft Corporation. All rights reserved.  
  
C:\Users\chara\OneDrive\Desktop\Java Prog>java SimpleInterest.java  
Principal amount: $1000.0  
Annual interest rate: 3.5%  
Time duration: 2.5 years  
Simple Interest: $87.5  
  
C:\Users\chara\OneDrive\Desktop\Java Prog>java Power.java  
Result: 81  
  
C:\Users\chara\OneDrive\Desktop\Java Prog>
```

### 4) simple interest



The screenshot shows an IDE with a file explorer at the top. The main editor displays the code for `SimpleInterest.java`. To the right, a command prompt window shows the execution of `SimpleInterest.java`, which outputs the principal amount, interest rate, time duration, and simple interest.

```
public class SimpleInterest {  
    public static void main(String[] args) {  
        double principal = 1000;  
        double rate = 0.05;  
        int time = 2;  
  
        double simpleInterest = (principal * rate * time);  
  
        System.out.println("Simple Interest: " + simpleInterest);  
    }  
}
```

```
C:\Windows\System32\cmd.e x + v  
Microsoft Windows [Version 10.0.22631.3810]  
(c) Microsoft Corporation. All rights reserved.  
  
C:\Users\chara\OneDrive\Desktop\Java Prog>java SimpleInterest.java  
Principal amount: $1000.0  
Annual interest rate: 3.5%  
Time duration: 2.5 years  
Simple Interest: $87.5  
  
C:\Users\chara\OneDrive\Desktop\Java Prog>
```