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1) Print the ASCII value of the character 'h'.

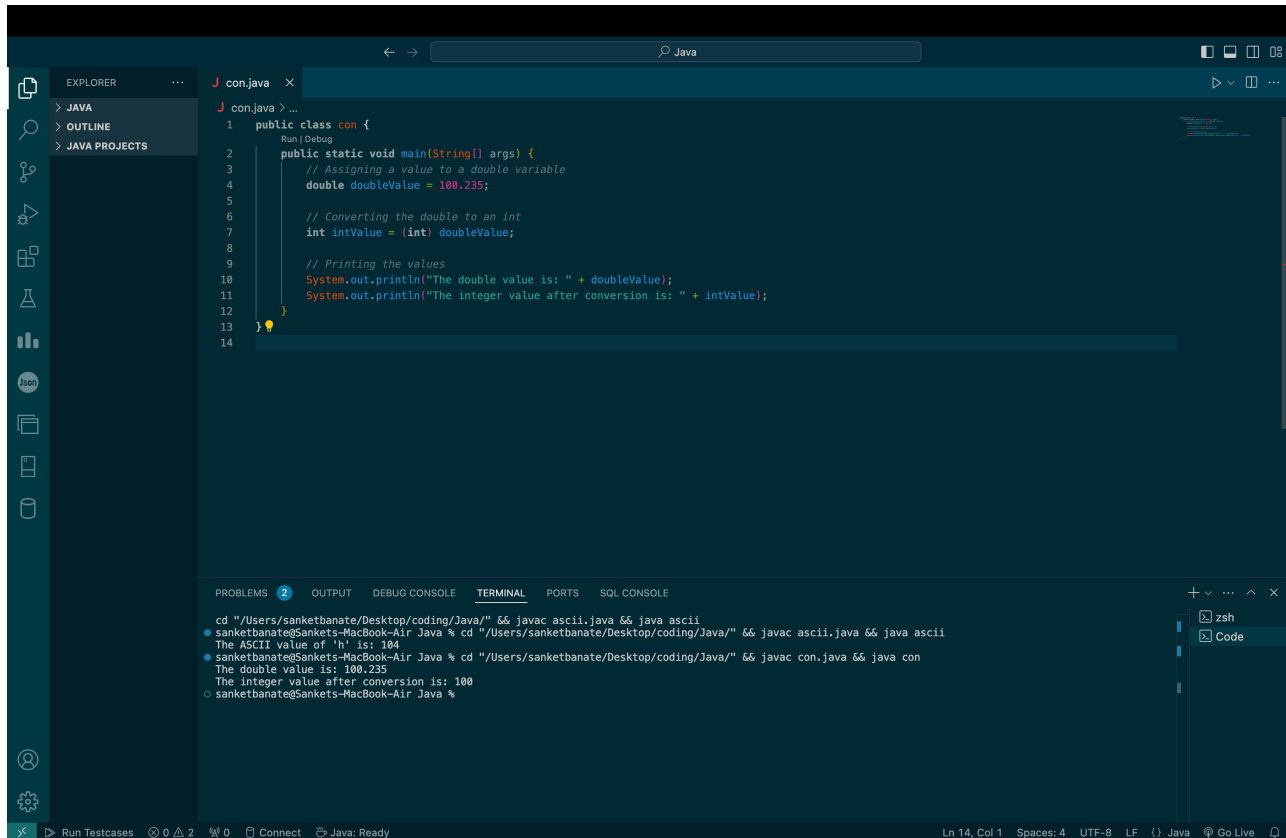
The screenshot shows an IDE with a Java project named 'Java'. The Explorer panel on the left lists various Java files, including 'ascii'. The main editor displays the following code in 'ascii.java':

```
1 public class ascii {  
2     public static void main(String[] args) {  
3         char character = 'h';  
4         int asciiValue = (int) character;  
5         System.out.println("The ASCII value of '" + character + "' is: " + asciiValue);  
6     }  
7 }
```

The code is executed, and the output is shown in the terminal at the bottom. The terminal displays the command to compile and run the program, followed by the output: 'The ASCII value of 'h' is: 104'.

```
cd "/Users/sanketbanate/Desktop/coding/Java/" && javac ascii.java && java ascii  
sanketbanate@Sankets-MacBook-Air Java % cd "/Users/sanketbanate/Desktop/coding/Java/" && javac ascii.java && java ascii  
The ASCII value of 'h' is: 104  
sanketbanate@Sankets-MacBook-Air Java %
```

2) Write a program to assign a value of 100.235 to a



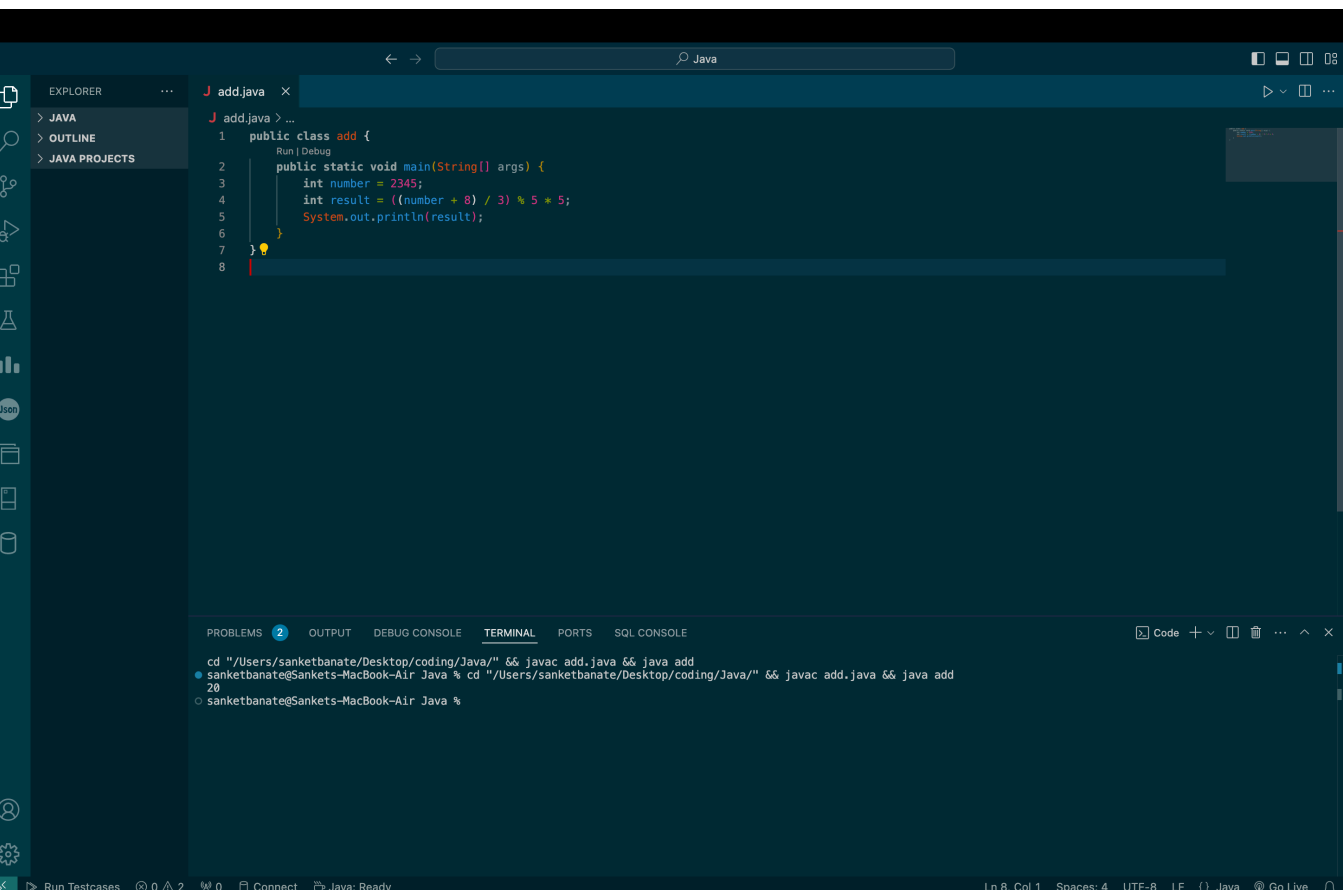
The screenshot shows an IDE with a Java file named 'con.java'. The code in the file is as follows:

```
1 public class con {  
2     public static void main(String[] args) {  
3         // Assigning a value to a double variable  
4         double doubleValue = 100.235;  
5  
6         // Converting the double to an int  
7         int intValue = (int) doubleValue;  
8  
9         // Printing the values  
10        System.out.println("The double value is: " + doubleValue);  
11        System.out.println("The integer value after conversion is: " + intValue);  
12    }  
13 }  
14
```

The bottom panel of the IDE shows the terminal output:

```
cd "/Users/sanketbanate/Desktop/coding/Java/" && javac ascii.java && java ascii  
sanketbanate@Sankets-MacBook-Air Java % cd "/Users/sanketbanate/Desktop/coding/Java/" && javac ascii.java && java ascii  
The ASCII value of 'h' is: 104  
sanketbanate@Sankets-MacBook-Air Java % cd "/Users/sanketbanate/Desktop/coding/Java/" && javac con.java && java con  
The double value is: 100.235  
The integer value after conversion is: 100  
sanketbanate@Sankets-MacBook-Air Java %
```

3) Write a program to add 8 to the number 2345 and then divide it by 3. Now, the modulus of the quotient is taken with 5 and then multiply the resultant value by 5. Display the final result.



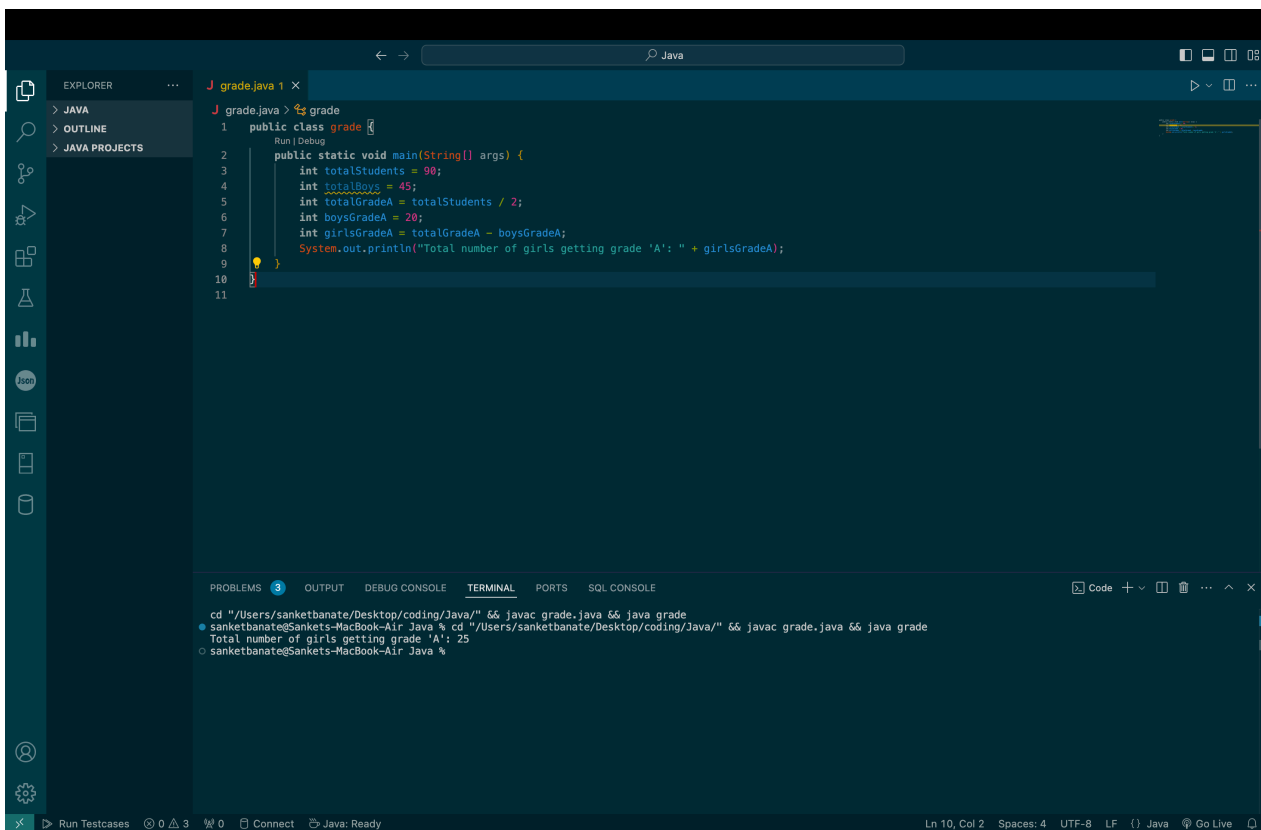
The screenshot shows an IDE with a Java file named 'add.java'. The code in the file is as follows:

```
1 public class add {  
2     public static void main(String[] args) {  
3         int number = 2345;  
4         int result = ((number + 8) / 3) % 5 * 5;  
5         System.out.println(result);  
6     }  
7 }  
8
```

The bottom panel of the IDE shows the terminal output:

```
cd "/Users/sanketbanate/Desktop/coding/Java/" && javac add.java && java add  
sanketbanate@Sankets-MacBook-Air Java % cd "/Users/sanketbanate/Desktop/coding/Java/" && javac add.java && java add  
20  
sanketbanate@Sankets-MacBook-Air Java %
```

4). The total number of students in a class are 90 out of which 45 are boys. If 50% of the total students secured grade 'A' out of which 20 are boys, then write a program to calculate the total number of girls getting grade 'A'.

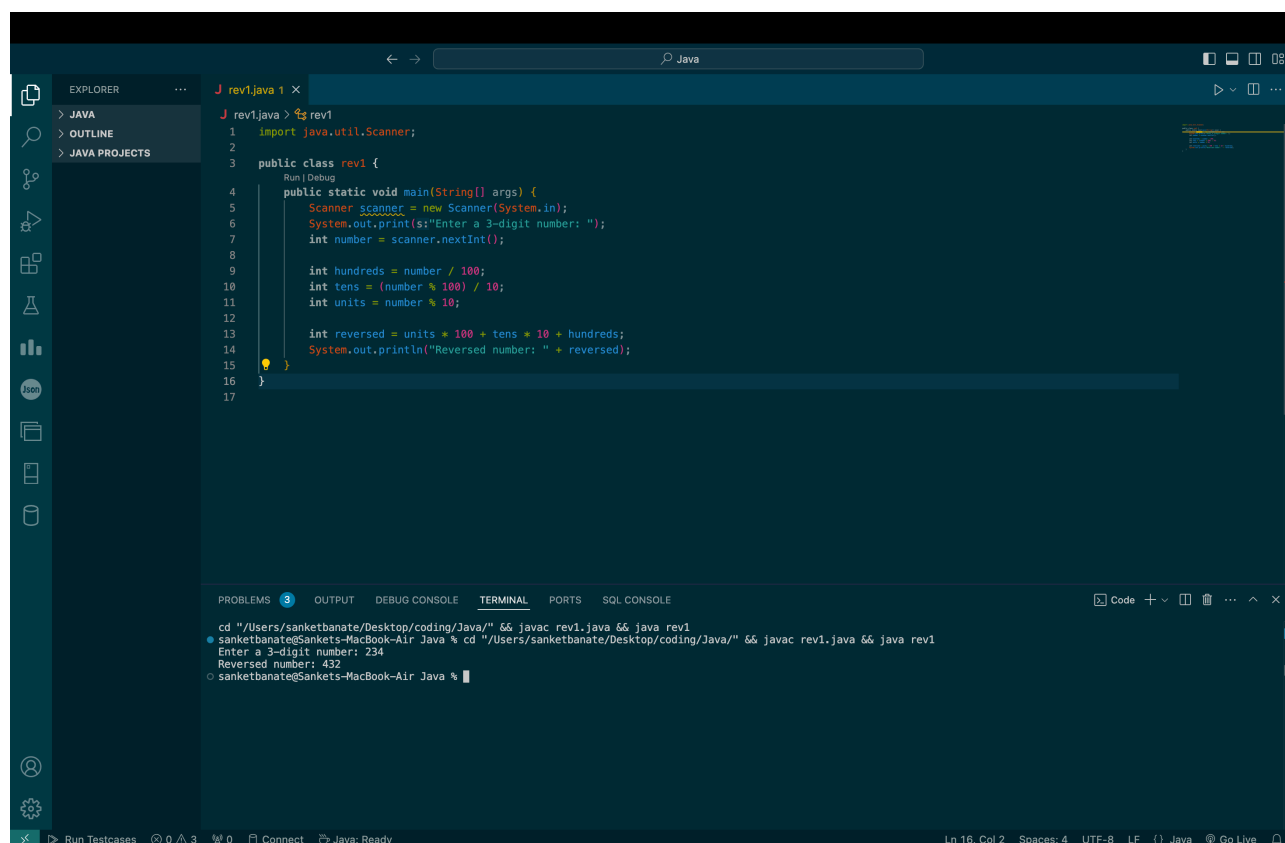


The screenshot shows an IDE with a Java file named `grade.java`. The code defines a `grade` class with a `main` method. It calculates the total number of girls getting grade 'A' by subtracting the number of boys from the total number of students who got grade 'A'.

```
1 public class grade {
2
3     public static void main(String[] args) {
4         int totalStudents = 90;
5         int totalBoys = 45;
6         int totalGradeA = totalStudents / 2;
7         int boysGradeA = 20;
8         int girlsGradeA = totalGradeA - boysGradeA;
9         System.out.println("Total number of girls getting grade 'A': " + girlsGradeA);
10    }
11 }
```

The terminal output shows the command to compile and run the program, and the output is "Total number of girls getting grade 'A': 25".

5).Write a program to reverse a 3-digit number. E.g.-Number : 132      Output : 231

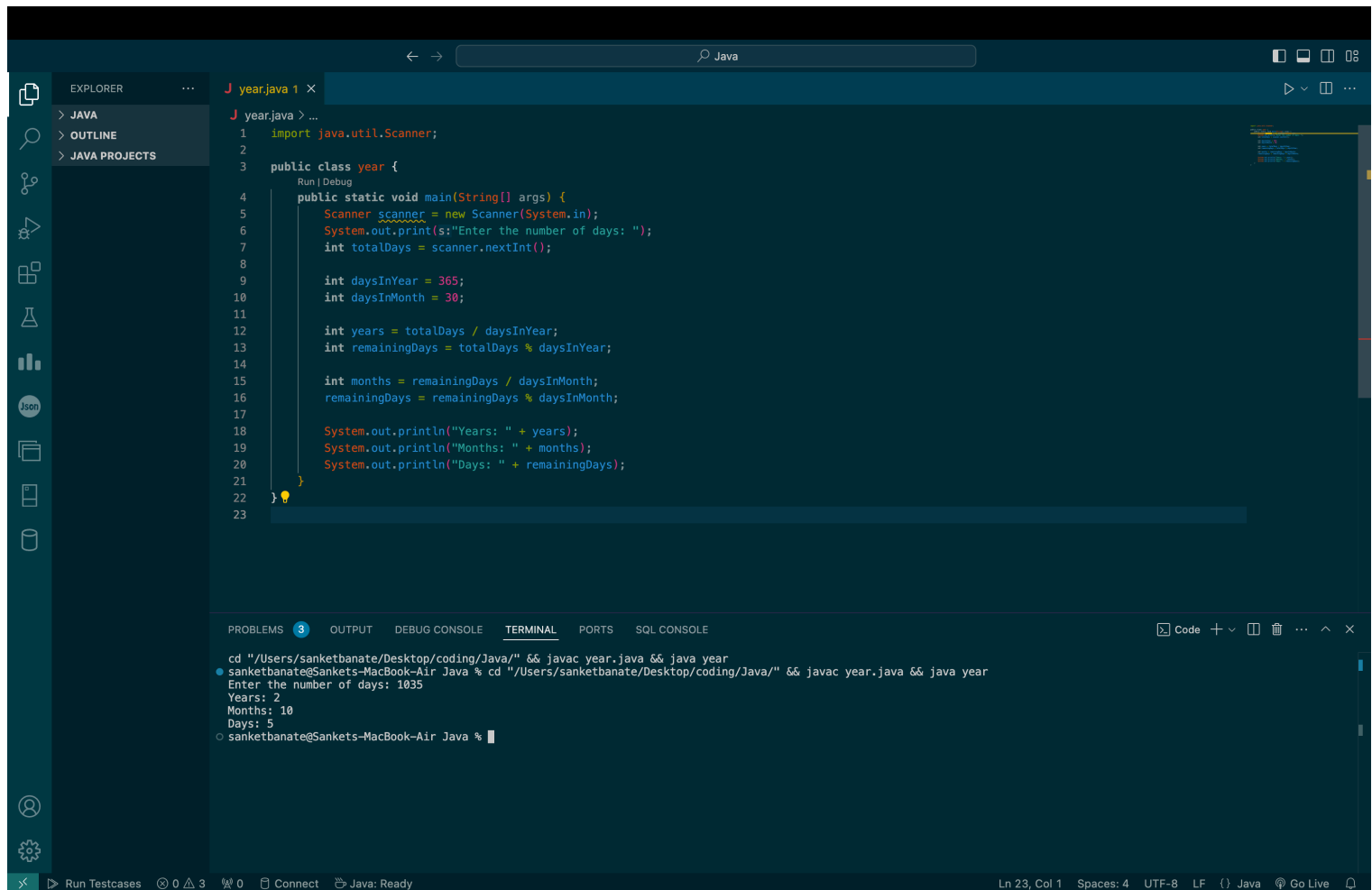


The screenshot shows an IDE with a Java file named `rev1.java`. The code defines a `rev1` class with a `main` method. It takes a 3-digit number as input and calculates its reverse by extracting the hundreds, tens, and units digits and then combining them in reverse order.

```
1 import java.util.Scanner;
2
3 public class rev1 {
4
5     public static void main(String[] args) {
6         Scanner scanner = new Scanner(System.in);
7         System.out.println("Enter a 3-digit number: ");
8         int number = scanner.nextInt();
9
10        int hundreds = number / 100;
11        int tens = (number % 100) / 10;
12        int units = number % 10;
13
14        int reversed = units * 100 + tens * 10 + hundreds;
15        System.out.println("Reversed number: " + reversed);
16    }
17 }
```

The terminal output shows the command to compile and run the program, and the output is "Reversed number: 432".

## 6) Java Program to Convert Days into Years, Months and Days



```
1  import java.util.Scanner;
2
3  public class year {
4      public static void main(String[] args) {
5          Scanner scanner = new Scanner(System.in);
6          System.out.print(s:"Enter the number of days: ");
7          int totalDays = scanner.nextInt();
8
9          int daysInYear = 365;
10         int daysInMonth = 30;
11
12         int years = totalDays / daysInYear;
13         int remainingDays = totalDays % daysInYear;
14
15         int months = remainingDays / daysInMonth;
16         remainingDays = remainingDays % daysInMonth;
17
18         System.out.println("Years: " + years);
19         System.out.println("Months: " + months);
20         System.out.println("Days: " + remainingDays);
21     }
22 }
23
```

PROBLEMS 3 OUTPUT DEBUG CONSOLE **TERMINAL** PORTS SQL CONSOLE

```
cd "/Users/sanketbanate/Desktop/coding/Java/" && javac year.java && java year
sanketbanate@Sankets-MacBook-Air Java % cd "/Users/sanketbanate/Desktop/coding/Java/" && javac year.java && java year
Enter the number of days: 1035
Years: 2
Months: 10
Days: 5
sanketbanate@Sankets-MacBook-Air Java %
```

Ln 23, Col 1 Spaces: 4 UTF-8 LF () Java Go Live