

```
1 public class DivisibleBy8AndMultipleOf5 {  
2     public static void main(String[] args) {  
3         int lowerLimit = 1000;  
4         int upperLimit = 2000;  
5         for (int num = lowerLimit; num <= upperLimit; num++) {  
6             if (num % 8 == 0 && num % 5 == 0) {  
7                 System.out.print(num + " ");  
8             }  
9         }  
10    }  
11 }  
12
```

```
java -cp /tmp/Lh0r7pIgc DivisibleBy8AndMultipleOf5  
1000 1040 1080 1120 1160 1200 1240 1280 1320 1360 1400 1440 1480 1520  
1560 1600 1640 1680 1720 1760 1800 1840 1880 1920 1960 2000
```

```
import java.util.Scanner;
import java.util.Random;
public class Main {
    public static void main(String[] args) {
        Random rand = new Random();
        int numberToGuess = rand.nextInt(9) + 1;
        int guess = 0;
        Scanner input = new Scanner(System.in);
        while (guess != numberToGuess) {
            System.out.println("Guess a number between 1 and 9
                               :");
            guess = input.nextInt();
            if (guess != numberToGuess) {
                System.out.println("Wrong guess, please try
                                   again");
            }
        }
        System.out.println("Well guessed!");
        input.close();
    }
}
```

```
java -cp /tmp/2d5WaDyBNE Main
Guess a number between 1 and 9:
1
Wrong guess, please try again
Guess a number between 1 and 9:
5
Wrong guess, please try again
Guess a number between 1 and 9:
2
Wrong guess, please try again
Guess a number between 1 and 9:
4
Wrong guess, please try again
Guess a number between 1 and 9:
9
Well guessed!
```

```
1 public class Pattern {  
2     public static void main(String[] args) {  
3         int rows = 5;  
4         for (int i = 1; i <= rows; i++) {  
5             for (int j = 1; j <= i; j++) {  
6                 System.out.print("* ");  
7             }  
8             System.out.println();  
9         }  
10        for (int i = rows - 1; i >= 1; i--) {  
11            for (int j = 1; j <= i; j++) {  
12                System.out.print("* ");  
13            }  
14            System.out.println();  
15        }  
16    }  
17 }  
18
```

```
java -cp /tmp/pnxDil3ITT Pattern
```

```
*  
* *  
* * *  
* * * *  
* * * *  
* * *  
* * *  
* *  
*  
|
```

```
1 import java.util.Scanner;
2
3 public class ReverseWord {
4     public static void main(String[] args) {
5         Scanner scanner = new Scanner(System.in);
6         System.out.print("Enter a word: ");
7         String input = scanner.nextLine();
8         scanner.close();
9         char[] charArray = input.toCharArray();
10        int start = 0;
11        int end = charArray.length - 1;
12        while (start < end) {
13            char temp = charArray[start];
14            charArray[start] = charArray[end];
15            charArray[end] = temp;
16            start++;
17            end--;
18        }
19        String reversedWord = new String(charArray);
20        System.out.println("Reversed word: " + reversedWord);
21    }
22 }
23
```

```
java -cp /tmp/SaNCxwSeyB ReverseWord
Enter a word: jaswanth
Reversed word: htnawsaj
```

```
1 import java.util.Scanner;
2 public class CountDigitsAndLetters {
3     public static void main(String[] args) {
4         Scanner scanner = new Scanner(System.in);
5         System.out.print("Enter a string: ");
6         String input = scanner.nextLine();
7         scanner.close();
8         int digitCount = 0;
9         int letterCount = 0;
10        for (char ch : input.toCharArray()) {
11            if (Character.isDigit(ch)) {
12                digitCount++;
13            } else if (Character.isLetter(ch)) {
14                letterCount++;
15            }
16        }
17        System.out.println("Letters " + letterCount);
18        System.out.println("Digits " + digitCount);
19    }
20 }
21
```

```
java -cp /tmp/mWL9XX8b9R CountDigitsAndLetters
Enter a string: jaswanth2005
Letters 8
Digits 4
```

```
1 import java.util.Scanner;
2 public class PasswordValidator {
3     public static void main(String[] args) {
4         Scanner scanner = new Scanner(System.in);
5         System.out.print("Enter your password: ");
6         String password = scanner.nextLine();
7         scanner.close();
8         boolean hasLowerCase = false;
9         boolean hasUpperCase = false;
10        boolean hasDigit = false;
11        for (char ch : password.toCharArray()) {
12            if (Character.isLowerCase(ch)) {
13                hasLowerCase = true;
14            } else if (Character.isUpperCase(ch)) {
15                hasUpperCase = true;
16            } else if (Character.isDigit(ch)) {
17                hasDigit = true;
18            }
19        }
20        if (hasLowerCase && hasUpperCase && hasDigit) {
21            System.out.println("Password is valid.");
22        } else {
23            System.out.println("Password is not valid.");
24        }
25    }
26 }
```

```
java -cp /tmp/70ZERYjunZ PasswordValidator
```

```
Enter your password: Jashu2005
```

```
Password is valid.
```

```
1 public class EvenDigitNumbers {
2     public static void main(String[] args) {
3         StringBuilder result = new StringBuilder();
4         boolean isFirstNumber = true;
5         for (int number = 100; number <= 400; number++) {
6             if (areAllDigitsEven(number)) {
7                 if (!isFirstNumber) {
8                     result.append(", ");
9                 }
10                result.append(number);
11                isFirstNumber = false;
12            }
13        }
14        System.out.println(result);
15    }
16    public static boolean areAllDigitsEven(int number) {
17        while (number != 0) {
18            int digit = number % 10;
19            if (digit % 2 != 0) {
20                return false;
21            }
22            number /= 10;
23        }
24        return true;
25    }
26 }
```

```
java -cp /tmp/dH4hcxt6UE EvenDigitNumbers
```

```
200, 202, 204, 206, 208, 220, 222, 224, 226, 228, 240, 242, 244, 246,
248, 260, 262, 264, 266, 268, 280, 282, 284, 286, 288, 400
```

```
1 import java.util.Scanner;
2 public class MonthToDaysConverter {
3     public static void main(String[] args) {
4         Scanner scanner = new Scanner(System.in);
5         System.out.print("Enter the month name: ");
6         String monthName = scanner.nextLine();
7         int days = getDaysInMonth(monthName);
8         if (days > 0) {
9             System.out.println("Number of days in " +
10                 monthName + ": " + days);
11         } else {
12             System.out.println("Invalid month name.");
13         }
14         scanner.close();
15     }
16     public static int getDaysInMonth(String monthName) {
17         String lowercaseMonth = monthName.toLowerCase();
18         int days;
19         switch (lowercaseMonth) {
20             case "january":
21             case "march":
22             case "may":
23             case "july":
24             case "august":
25             case "october":
```

```
java -cp /tmp/KSec537W9X MonthToDaysConverter
Enter the month name: march
Number of days in march: 31
```



```
19     case "january":
20         case "march":
21             case "may":
22                 case "july":
23                     case "august":
24                         case "october":
25                             case "december":
26                                 days = 31;
27                                 break;
28                     case "april":
29                         case "june":
30                             case "september":
31                                 case "november":
32                                     days = 30;
33                                     break;
34                             case "february":
35                                 days = 28;
36                                 break;
37                     default:
38                         days = -1;
39             }
40     return days;
41 }
42 }
43
```

java -cp /tmp/KSec537W9X MonthToDaysConverter
Enter the month name: march
Number of days in march: 31

```
1 public class SumWithRangeCheck {  
2     public static void main(String[] args) {  
3         int num1 = 50;  
4         int num2 = 100;  
5         int result = sumWithRangeCheck(num1, num2);  
6         System.out.println("Result: " + result);  
7     }  
8     public static int sumWithRangeCheck(int a, int b) {  
9         int sum = a + b;  
10        if (sum >= 105 && sum <= 200) {  
11            return 200;  
12        }  
13        return sum;  
14    }  
15 }  
16
```

```
java -cp /tmp/ilqhqdXFam SumWithRangeCheck  
Result: 200
```

```
1 public class NumberPattern {  
2     public static void main(String[] args) {  
3         int rows = 9;  
4         for (int i = rows; i >= 1; i--) {  
5             for (int j = 1; j <= i; j++) {  
6                 System.out.print(i);  
7             }  
8             System.out.println();  
9         }  
10    }  
11 }  
12
```

```
java -cp /tmp/ZqdiIQS4Mq NumberPattern
```

```
9999999999
```

```
8888888888
```

```
77777777
```

```
6666666
```

```
55555
```

```
4444
```

```
333
```

```
22
```

```
1
```

```
|
```