

1.

```
J Question1.java > Java > Question1 > main(String[] args)
1  public class Question1 {
2      Run | Debug | Run main | Debug main
3      public static void main(String[] args) {
4
5          System.out.println("Numbers between 1 and 50 divisible by either 3 or 5, but not both:");
6
7          for (int i = 1; i <= 50; i++) {
8              if ((i % 3 == 0 || i % 5 == 0) && !(i % 3 == 0 && i % 5 == 0)) {
9                  System.out.println(i);
10             }
11         }
12     }
13 }
14
```

Output:

```
3
5
6
9
10
12
18
20
21
24
25
27
33
35
36
39
40
42
48
50
```

2.

```
J Question2.java > ...
1   import java.util.Scanner;
2
3   public class Question2 {
4       Run | Debug | Run main | Debug main
4   public static void main(String[] args) {
5
6       Scanner sc = new Scanner(System.in);
7
8       System.out.print(s: "Enter a number: ");
9       int n = sc.nextInt();
10      for (int i = 1; i <= n; i++) {
11          if (i % 4 == 0) {
12              continue;
13          }
14          System.out.println(i);
15      }
16  }
17 }
18
19 |
```

Output:

```
Enter a number: 10
```

```
1
2
3
5
6
7
9
10
```

3.

```
J Question3.java > Language Support for Java(TM) by Red Hat > ⚙ Question3 > ⚡ main(String[])

1  public class Question3 {
2      Run | Debug | Run main | Debug main
3      public static void main(String[] args) {
4          for (int i = 1; i <= 30; i++) {
5              if (i % 3 == 0 && i % 5 == 0) {
6                  System.out.println("FizzBuzz");
7              }
8              else if (i % 3 == 0) {
9                  System.out.println("Fizz");
10             }
11            else if (i % 5 == 0) {
12                System.out.println("Buzz");
13            }
14            else {
15                System.out.println(i);
16            }
17        }
18    }
19  }
20 }
```

Output:

```
1
2
Fizz
4
Buzz
Fizz
7
8
Fizz
Buzz
11
Fizz
13
14
FizzBuzz
16
17
Fizz
19
Buzz
Fizz
22
23
Fizz
Buzz
26
Fizz
28
29
FizzBuzz
```

4.

```
1 import java.util.Scanner;
2
3 public class Question4 {
4     public static void main(String[] args) {
5         Scanner sc = new Scanner(System.in);
6         System.out.println("Enter 10 integers:");
7         for (int i = 1; i <= 10; i++) {
8             System.out.print("Enter number " + i + ": ");
9             int num = sc.nextInt();
10            if (num % 2 == 0 && num > 20) {
11                System.out.println(num + " is even and greater than 20.");
12            }
13        }
14    }
15}
16
```

Output:

```
Enter 10 integers:
Enter number 1: 22
22 is even and greater than 20.
Enter number 2: 19
Enter number 3: 23
Enter number 4: 21
Enter number 5: 28
28 is even and greater than 20.
Enter number 6: 30
30 is even and greater than 20.
Enter number 7: 32
32 is even and greater than 20.
Enter number 8: 12
Enter number 9: 14
Enter number 10: 22
22 is even and greater than 20.
```

5.

```
J Question5.java > Java > Question5 > main(String[] args)
1  public class Question5 {
2      Run | Debug | Run main | Debug main
3      public static void main(String[] args) {
4
5          int sumEven = 0;
6          int productOdd = 1;
7          for (int i = 1; i <= 10; i++) {
8              if (i % 2 == 0) {
9                  sumEven += i;
10             } else {
11                 productOdd *= i;
12             }
13         }
14         System.out.println("Sum of even numbers between 1 and 10: " + sumEven);
15         System.out.println("Product of odd numbers between 1 and 10: " +productOdd);
16     }
17 }
18
```

Output:

```
Sum of even numbers between 1 and 10: 30
Product of odd numbers between 1 and 10: 945
```

6.

```
J Question6.java > Language Support for Java(TM) by Red Hat > ⏺ Question6
1  public class Question6 {
2      Run | Debug | Run main | Debug main
3      public static void main(String[] args) {
4          for (int i = 1; i <= 30; i++) {
5              if (i == 15) {
6                  System.out.println(x: "skip");
7              }
8              else if (i % 4 == 0) [
9                  System.out.println(i * 2);
10                 ]
11             else {
12                 System.out.println(i);
13             }
14         }
15     }
16     System.out.println(x: "done");
17 }
18 }
19 }
20 }
```

Output:

```
1
2
3
8
5
6
7
16
9
10
11
24
13
14
skip
32
17
18
19
40
21
22
23
48
25
26
27
56
29
30
done
```

7.

J Question7.java > ...

```
1 import java.util.Scanner;
2 public class Question7 {
3     Run | Debug | Run main | Debug main
4     public static void main(String[] args) {
5         Scanner sc = new Scanner(System.in);
6         int correctPIN = 1234;
7         int attempts = 3;
8         for (int i = 1; i <= attempts; i++) {
9             System.out.println("Enter your PIN: ");
10            int enteredPIN = sc.nextInt();
11            if (enteredPIN == correctPIN) {
12                System.out.println("Access Granted");
13                break;
14            } else {
15                if (i < attempts) {
16                    System.out.println("Incorrect PIN, try again");
17                }else {
18                    System.out.println("Account Locked");
19                }
20            }
21        }
22    }
23
24 
```

Output:

```
Enter your PIN:
11
Incorrect PIN, try again
Enter your PIN:
123
Incorrect PIN, try again
Enter your PIN:
1234
Access Granted
```