

1.

```
J Question1.java > Java > Question1 > main(String[] args)
1  public class Question1 {
    Run | Debug | Run main | Debug main
2  public static void main(String[] args) {
3
4      System.out.println(x: "Numbers between 1 and 50 divisible by either 3 or 5, but not both:");
5
6      for (int i = 1; i <= 50; i++) {
7
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.

```
Question2.java > ...
1  import java.util.Scanner;
2
3  public class Question2 {
4      Run | Debug | Run main | Debug main
      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 {
    Run | Debug | Run main | Debug main
2  public static void main(String[] args) {
3
4      for (int i = 1; i <= 30; i++) {
5
6          if (i % 3 == 0 && i % 5 == 0) {
7              System.out.println(x: "FizzBuzz");
8          }
9          else if (i % 3 == 0) {
10             System.out.println(x: "Fizz");
11         }
12         else if (i % 5 == 0) {
13             System.out.println(x: "Buzz");
14         }
15         else {
16             System.out.println(i);
17         }
18     }
19 }
20
21
```

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      Run | Debug | Run main | Debug main
5      public static void main(String[] args) {
6          Scanner sc = new Scanner(System.in);
7          System.out.println("Enter 10 integers:");
8          for (int i = 1; i <= 10; i++) {
9              System.out.print("Enter number " + i + ": ");
10             int num = sc.nextInt();
11             if (num % 2 == 0 && num > 20) {
12                 System.out.println(num + " is even and greater than 20.");
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.

```
Question5.java > Java > Question5 > main(String[] args)
1  public class Question5 {
    Run | Debug | Run main | Debug main
2      public static void main(String[] args) {
3
4          int sumEven = 0;
5          int productOdd = 1;
6          for (int i = 1; i <= 10; i++) {
7              if (i % 2 == 0) {
8                  sumEven += i;
9              } else {
10                 productOdd *= i;
11             }
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.

```
Question6.java > Language Support for Java(TM) by Red Hat > Question6
1  public class Question6 {
    Run | Debug | Run main | Debug main
2  public static void main(String[] args) {
3
4      for (int i = 1; i <= 30; i++) {
5
6          if (i == 15) {
7              System.out.println(x: "skip");
8          }
9          else if (i % 4 == 0) {
10             System.out.println(i * 2);
11         }
12         else {
13             System.out.println(i);
14         }
15     }
16
17     System.out.println(x: "done");
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 {
    Run | Debug | Run main | Debug main
3      public static void main(String[] args) {
4          Scanner sc = new Scanner(System.in);
5          int correctPIN = 1234;
6          int attempts = 3;
7          for (int i = 1; i <= attempts; i++) {
8              System.out.println(x: "Enter your PIN: ");
9              int enteredPIN = sc.nextInt();
10             if (enteredPIN == correctPIN) {
11                 System.out.println(x: "Access Granted");
12                 break;
13             } else {
14                 if (i < attempts) {
15                     System.out.println(x: "Incorrect PIN, try again");
16                 } else {
17                     System.out.println(x: "Account Locked");
18                 }
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
```