



TASK 1

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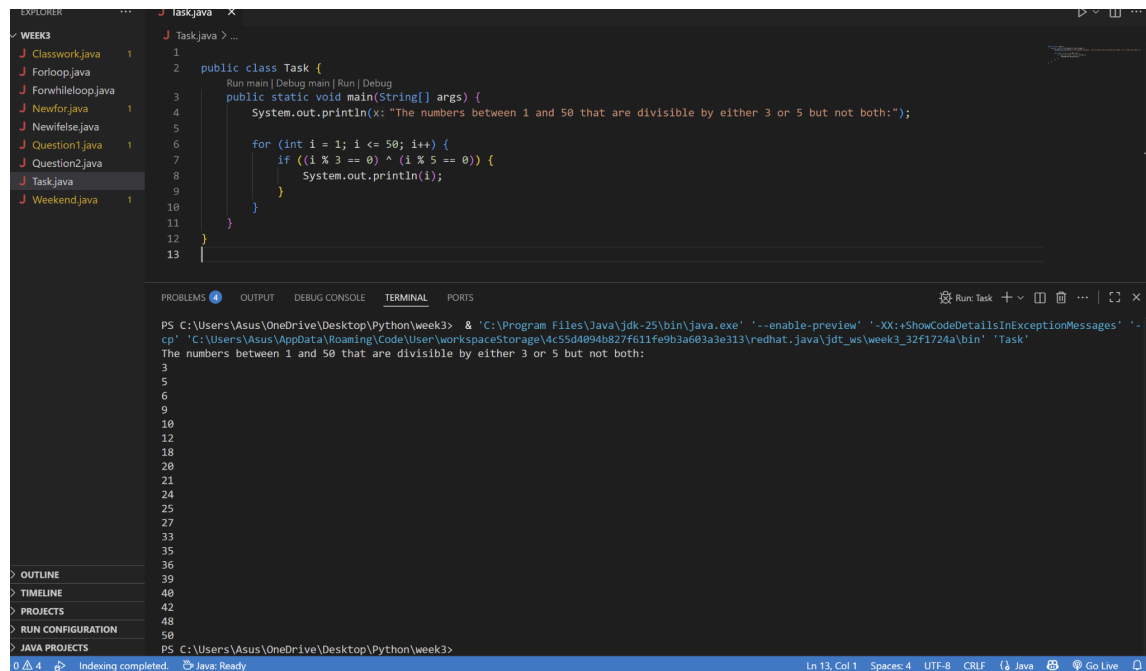
BSc. Hons Computing, Softwarica College of IT & E-Commerce

STW4003CEM Object Oriented Program

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9 nov 2025

1. Write a Java program using a for loop and if statement to print all numbers between 1 and 50 that are divisible by either 3 or 5, but not both.



```
1 public class Task {
2     public static void main(String[] args) {
3         System.out.println("The numbers between 1 and 50 that are divisible by either 3 or 5 but not both:");
4
5         for (int i = 1; i <= 50; i++) {
6             if ((i % 3 == 0) ^ (i % 5 == 0)) {
7                 System.out.println(i);
8             }
9         }
10    }
11 }
12
13
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

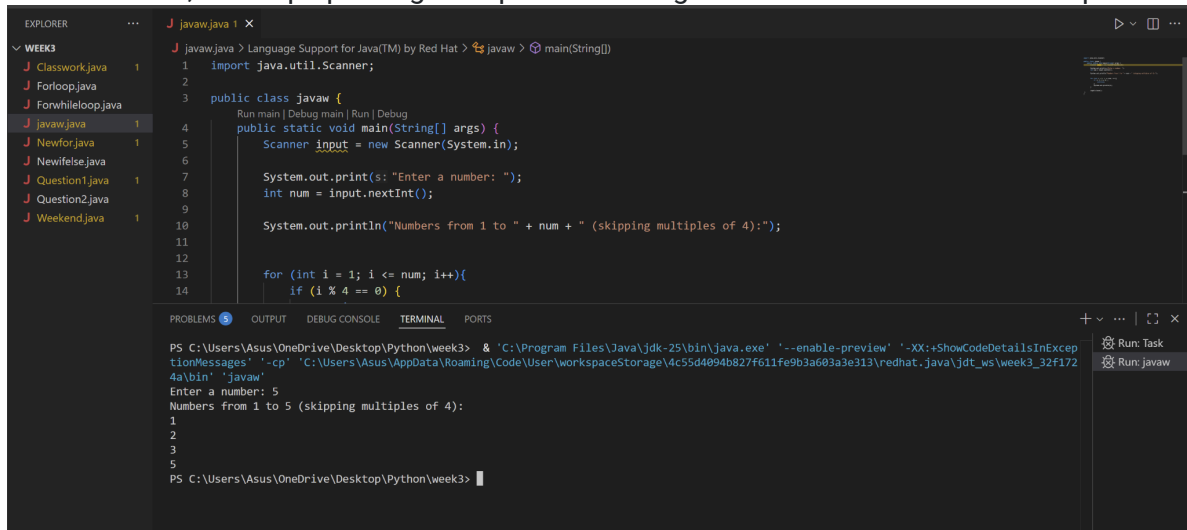
PS C:\Users\Asus\OneDrive\Desktop\Python\week3> & 'C:\Program Files\Java\jdk-25\bin\java.exe' '--enable-preview' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\Asus\AppData\Roaming\Code\User\workspaceStorage\4c55d4094b827f611fe9b3a603a3e313\redhat.java\jdt_ws\week3_32f1724a\bin\' 'Task'

The numbers between 1 and 50 that are divisible by either 3 or 5 but not both:

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

0 4 Indexing completed Java: Ready Ln 13, Col 1 Spaces: 4 UTF-8 CRLF Java Go Live

2. Write a Java program that takes a number from the user and prints all numbers from 1 to that number, but skips printing multiples of 4 using an if condition inside a for loop.



```
1 import java.util.Scanner;
2
3 public class javaw {
4     public static void main(String[] args) {
5         Scanner input = new Scanner(System.in);
6
7         System.out.print("Enter a number: ");
8         int num = input.nextInt();
9
10        System.out.println("Numbers from 1 to " + num + " (skipping multiples of 4):");
11
12        for (int i = 1; i <= num; i++) {
13            if (i % 4 == 0) {
14                continue;
15            }
16            System.out.println(i);
17        }
18    }
19 }
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

PS C:\Users\Asus\OneDrive\Desktop\Python\week3> & 'C:\Program Files\Java\jdk-25\bin\java.exe' '--enable-preview' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\Asus\AppData\Roaming\Code\User\workspaceStorage\4c55d4094b827f611fe9b3a603a3e313\redhat.java\jdt_ws\week3_32f1724a\bin\' 'javaw'

Enter a number: 5

Numbers from 1 to 5 (skipping multiples of 4):

1
2
3
5

PS C:\Users\Asus\OneDrive\Desktop\Python\week3>

3. Write a Java program using a for loop and if statements to print “Fizz” for numbers divisible by 3, “Buzz” for numbers divisible by 5, and “FizzBuzz” for numbers divisible by both, between 1 and 30.

```

1 public class javaw {
2     public static void main(String[] args){
3         System.out.println(x: "FizzBuzz from 1 to 50: ");
4         for (int i = 1; i<=50; i++){
5             if (i % 3==0 && i % 5 ==0){
6                 System.out.println(x: "FizzBuzz");
7             }
8             else if (i % 3 ==0){
9                 System.out.println(x: "Fuzz");
10            }
11            else if (i % 5 ==0){
12                System.out.println(x: "Buzz");
13            }
14            else {
15                System.out.println(i);
16            }
17        }
18    }
19 }
20 }
21 }

```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

PS C:\Users\Asus\OneDrive\Desktop\Python\week3> c:; cd 'c:\Users\Asus\OneDrive\Desktop\Python\week3'; & 'C:\Program Files\Java\jdk-25\bin\java.exe' '--enable-preview' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp 'C:\Users\Asus\AppData\Roaming\Code\User\workspaceStorage\4c55d4094b827f611fe9b3a603a3e313\redhat.java\jdt_ws\week3_32f1724a\bin' 'javaw'

FizzBuzz from 1 to 50:
1
2
Fuzz
4
Buzz
Fuzz
7
8
Fuzz
Fuzz
11
12
Buzz
14
15
Fuzz
16
17
Fuzz
19
20
Buzz
22
23
Fuzz
24
25
Fuzz
26
27
Fuzz
28
29
Fuzz
30
31
32
33
34
35
Fuzz
36
37
38
39
Fuzz
40
41
42
43
44
45
Fuzz
46
47
48
49
50

4. Write a Java program that asks for 10 integers and prints only those that are even and greater than 20 using if and for loops.

```

1 import java.util.Scanner;
2
3 public class Task {
4     public static void main(String[] args) {
5         Scanner sc = new Scanner(System.in);
6
7         System.out.println(x: "Enter 10 integers:");
8
9         for (int i = 1; i <= 10; i++) {
10             int num = sc.nextInt();
11
12             if (num % 2 == 0 && num > 20) {
13                 System.out.println(num);
14             }
15         }
16     }
17 }
18
19 }
20

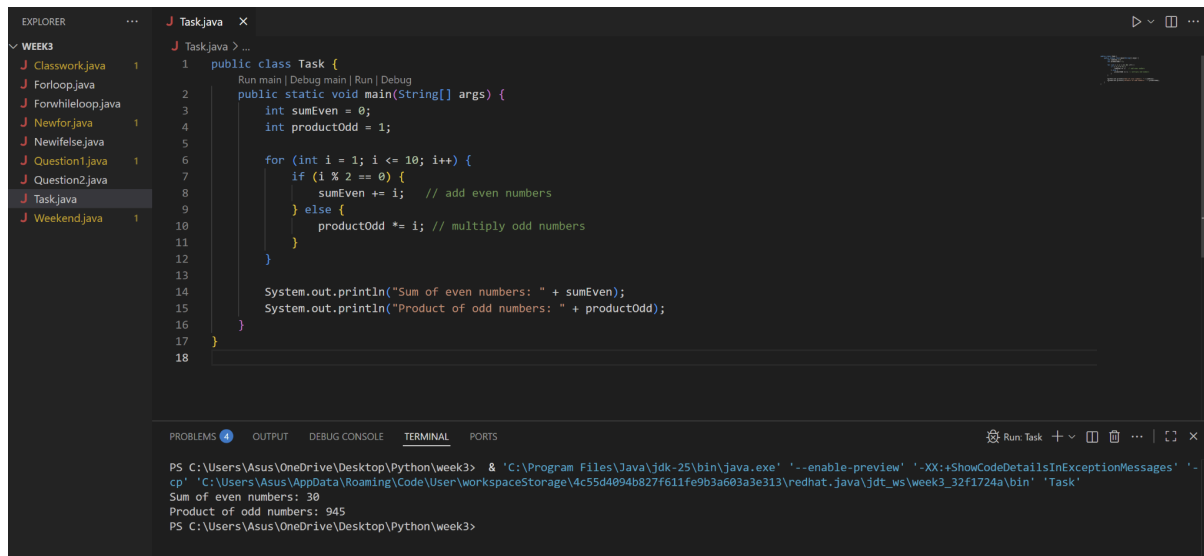
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

PS C:\Users\Asus\OneDrive\Desktop\Python\week3> & 'C:\Program Files\Java\jdk-25\bin\java.exe' '--enable-preview' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp 'C:\Users\Asus\AppData\Roaming\Code\User\workspaceStorage\4c55d4094b827f611fe9b3a603a3e313\redhat.java\jdt_ws\week3_32f1724a\bin' 'Task'

Enter 10 integers:
10 2 3 80 70 69 4 60 32 66
80
70
60
32
66
PS C:\Users\Asus\OneDrive\Desktop\Python\week3>

5. Write a Java program that prints the sum of even numbers and the product of odd numbers between 1 and 10 using a for loop and if condition.

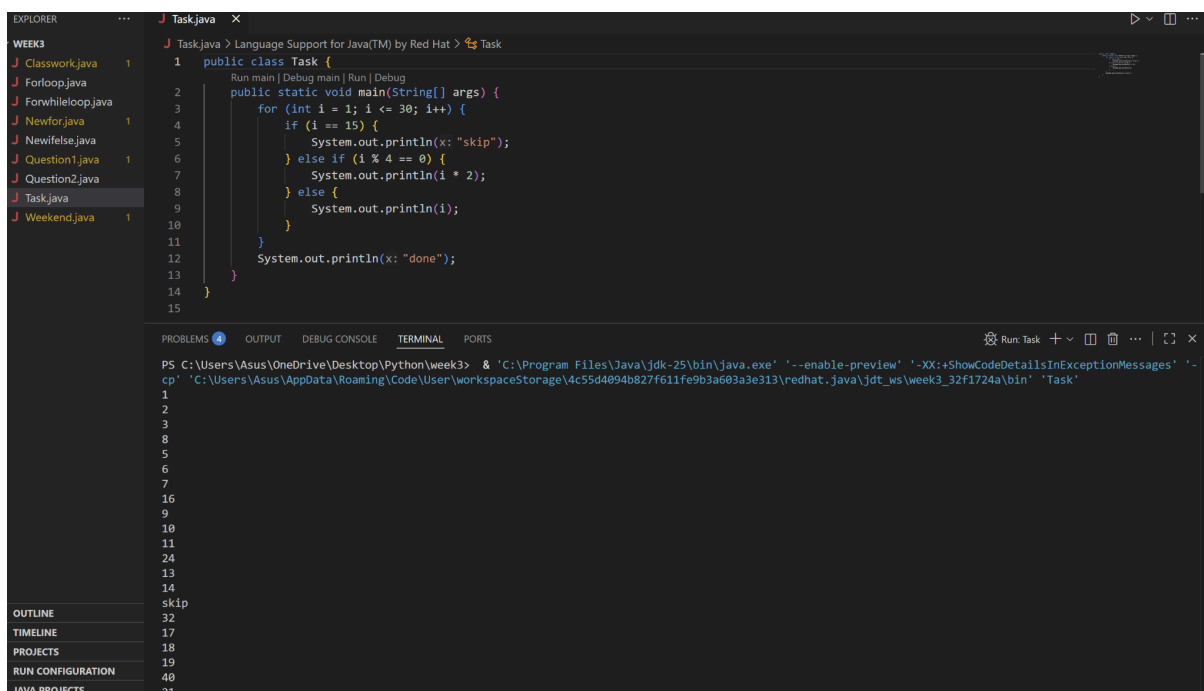


```
1 public class Task {
2     public static void main(String[] args) {
3         int sumEven = 0;
4         int productOdd = 1;
5
6         for (int i = 1; i <= 10; i++) {
7             if (i % 2 == 0) {
8                 sumEven += i; // add even numbers
9             } else {
10                productOdd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

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
PS C:\Users\Asus\OneDrive\Desktop\Python\week3> & 'C:\Program Files\Java\jdk-25\bin\java.exe' '-enable-preview' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\Asus\AppData\Roaming\Code\User\workspaceStorage\4c55d4094b827f611fe9b3a603a3e313\redhat.java\jdt_ws\week3_32f1724a\bin' 'Task'
Sum of even numbers: 30
Product of odd numbers: 945
PS C:\Users\Asus\OneDrive\Desktop\Python\week3>
```

6. Write a Java program using a for loop that prints numbers from 1 to 30, but: Prints “skip” instead of 15, Doubles any number divisible by 4 before printing, And prints “done” at the end.



```
1 public class Task {
2     public static void main(String[] args) {
3         for (int i = 1; i <= 30; i++) {
4             if (i == 15) {
5                 System.out.println(x: "skip");
6             } else if (i % 4 == 0) {
7                 System.out.println(i * 2);
8             } else {
9                 System.out.println(i);
10            }
11        }
12        System.out.println(x: "done");
13    }
14 }
15
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
PS C:\Users\Asus\OneDrive\Desktop\Python\week3> & 'C:\Program Files\Java\jdk-25\bin\java.exe' '-enable-preview' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\Asus\AppData\Roaming\Code\User\workspaceStorage\4c55d4094b827f611fe9b3a603a3e313\redhat.java\jdt_ws\week3_32f1724a\bin' 'Task'
1
2
3
8
5
6
7
16
9
10
11
24
13
14
skip
32
17
18
19
40
21
```

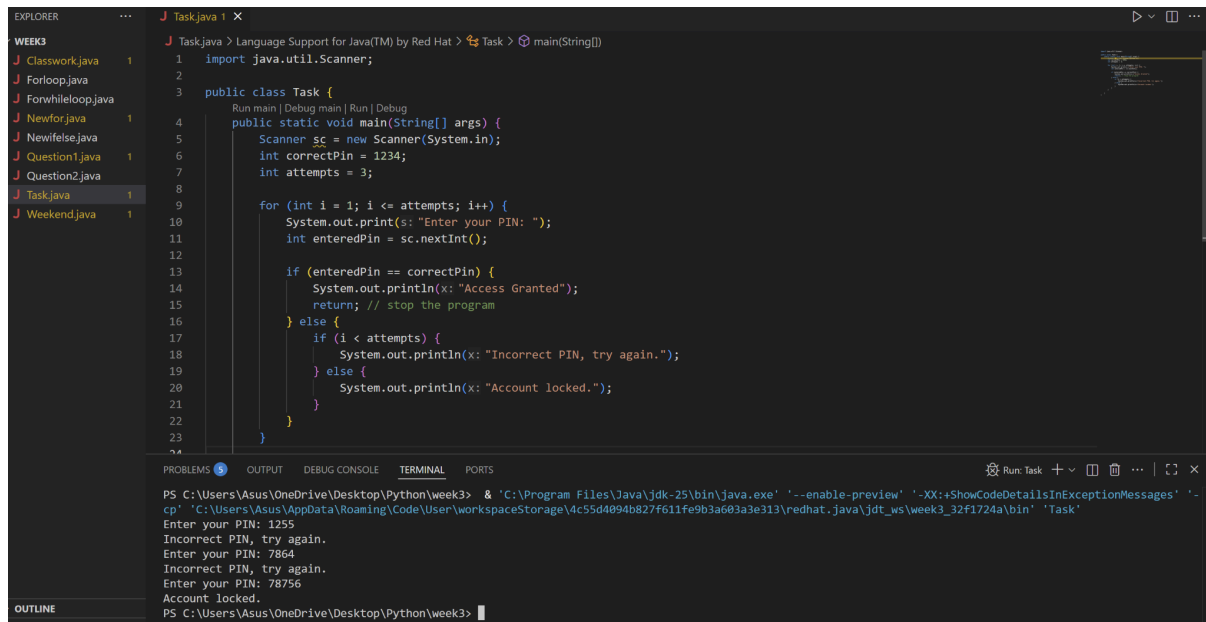
7. Write a Java program that simulates an ATM PIN verification system.

The program should have a correct PIN stored (for example, 1234) and allow the user up to three attempts to enter the correct PIN.

If the user enters the correct PIN, print "Access Granted" and stop the program.

If the user enters the wrong PIN, print "Incorrect PIN, try again".

After three incorrect attempts, print "Account locked".



The screenshot displays an IDE with a Java file named `Task.java` and its execution output in the terminal.

Task.java Code:

```
1 import java.util.Scanner;
2
3 public class Task {
4     public static void main(String[] args) {
5         Scanner sc = new Scanner(System.in);
6         int correctPin = 1234;
7         int attempts = 3;
8
9         for (int i = 1; i <= attempts; i++) {
10            System.out.print(s: "Enter your PIN: ");
11            int enteredPin = sc.nextInt();
12
13            if (enteredPin == correctPin) {
14                System.out.println(x: "Access Granted");
15                return; // stop the program
16            } else {
17                if (i < attempts) {
18                    System.out.println(x: "Incorrect PIN, try again.");
19                } else {
20                    System.out.println(x: "Account locked.");
21                }
22            }
23        }
24    }
25 }
```

Terminal Output:

```
PS C:\Users\Asus\OneDrive\Desktop\Python\week3> & 'C:\Program Files\Java\jdk-25\bin\java.exe' '-enable-preview' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\Asus\AppData\Roaming\Code\User\workspaceStorage\4c55d4094b827f611fe9b3a603a3e313\redhat.java\jdt_ws\week3_32f1724a\bin' 'Task'
Enter your PIN: 1255
Incorrect PIN, try again.
Enter your PIN: 7864
Incorrect PIN, try again.
Enter your PIN: 78756
Account locked.
PS C:\Users\Asus\OneDrive\Desktop\Python\week3>
```