



TASK 1

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STW4003CEM Object Oriented Program

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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.

```
EXPLORER ⋮ J Task.java x
WEEK3
J Classwork.java 1
J Forloop.java
J Forwhileloop.java
J Newfor.java 1
J Newifelse.java
J Question1.java 1
J Question2.java
J Task.java
J Weekendjava 1

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

PROBLEMS ④ 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\4c55d4094b827f61fe9b3a603a3e313\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
PS C:\Users\Asus\OneDrive\Desktop\Python\week3>
Indexing completed. Java: Ready
```

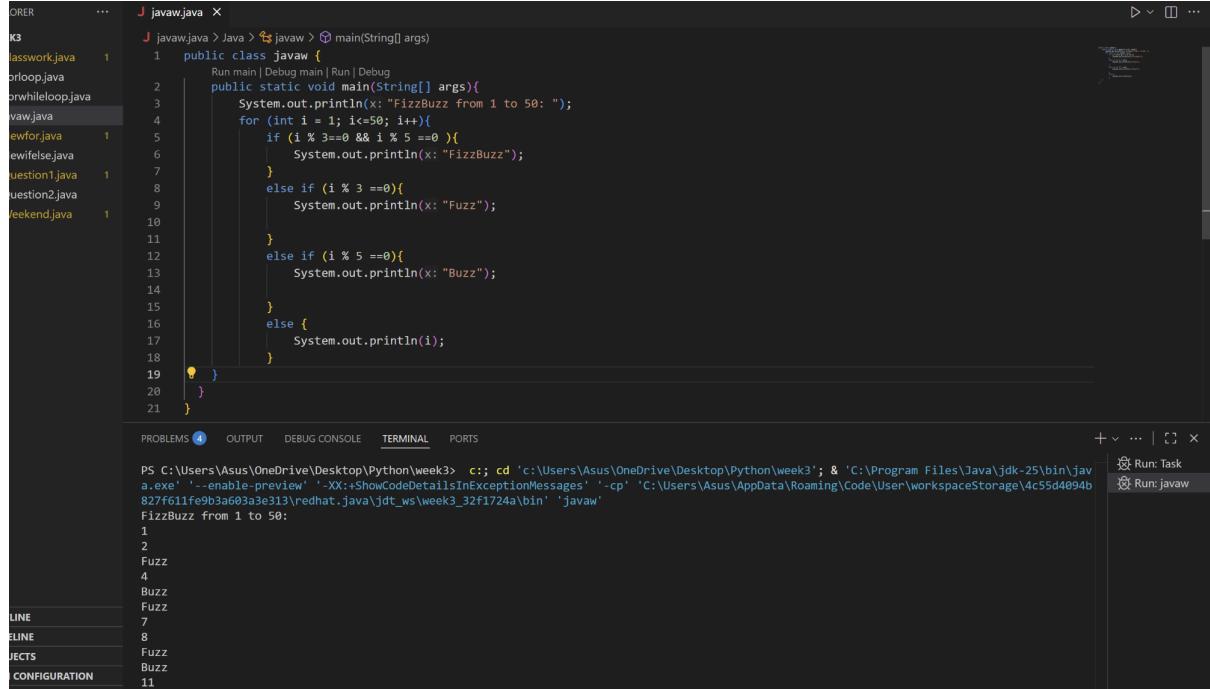
2. Write a Java program that takes a number from the user and prints all numbers from 1 to that number, but skips printing multiples of 4 using an if condition inside a for loop.

```
EXPLORER ⋮ J javaw.java 1 x
WEEK3
J Classwork.java 1
J Forloop.java
J Forwhileloop.java
J javaw.java 1
J Newfor.java 1
J Newifelse.java
J Question1.java 1
J Question2.java
J Weekendjava 1

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

```
PROBLEMS ⑤ 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\4c55d4094b827f61fe9b3a603a3e313\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.



```

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

```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

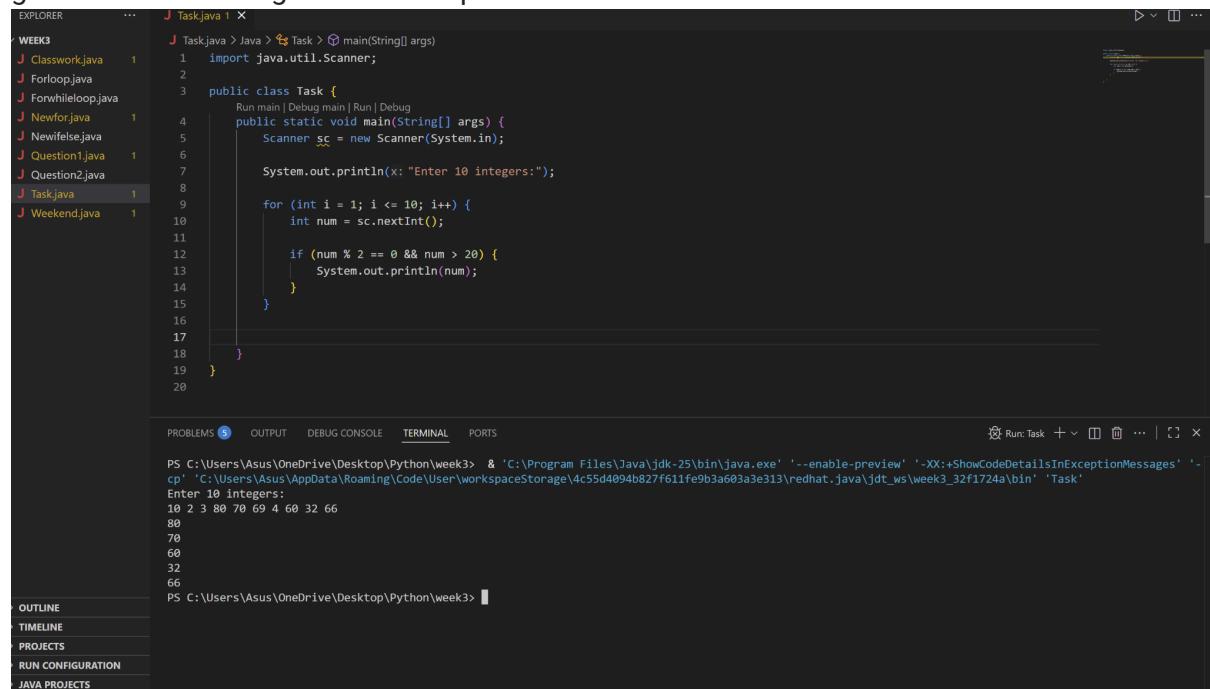
```

PS C:\Users\Asus\OneDrive\Desktop\Python\week3> 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 30:
1
2
Fuzz
4
Buzz
Buzz
7
8
Fuzz
Buzz
11

```

LINE ELINE PROJECTS CONFIGURATION

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.



```

Task.java
1 import java.util.Scanner;
2
3 public class Task {
4     Run main | Debug main | Run | Debug
5     public static void main(String[] args) {
6         Scanner sc = new Scanner(System.in);
7         System.out.print("Enter 10 integers:");
8         for (int i = 1; i <= 10; i++) {
9             int num = sc.nextInt();
10            if (num % 2 == 0 && num > 20) {
11                System.out.println(num);
12            }
13        }
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 88 70 69 4 60 32 66
88
70
69
32
66
PS C:\Users\Asus\OneDrive\Desktop\Python\week3>

```

OUTLINE TIMELINE PROJECTS RUN CONFIGURATION JAVA PROJECTS

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.

The screenshot shows a Java code editor with the file 'Task.java' open. The code defines a class 'Task' with a main method that iterates from 1 to 10. It uses an if-else condition to add even numbers to a sum and multiply odd numbers to a product. The output window shows the sum of even numbers (30) and the product of odd numbers (945).

```
public class Task {
    public static void main(String[] args) {
        int sumEven = 0;
        int productOdd = 1;

        for (int i = 1; i <= 10; i++) {
            if (i % 2 == 0) {
                sumEven += i; // add even numbers
            } else {
                productOdd *= i; // multiply odd numbers
            }
        }

        System.out.println("Sum of even numbers: " + sumEven);
        System.out.println("Product of odd numbers: " + productOdd);
    }
}
```

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.

The screenshot shows a Java code editor with the file 'Task.java' open. The code defines a class 'Task' with a main method that iterates from 1 to 30. It uses an if-else-if-else block to handle specific cases: if i is 15, it prints 'skip'; if i is divisible by 4, it doubles the value and prints it; otherwise, it prints the value as is. The output window shows the sequence of numbers from 1 to 30, with 'skip' at position 15 and values doubled for positions 4, 8, 12, 16, 20, 24, and 28.

```
public class Task {
    public static void main(String[] args) {
        for (int i = 1; i <= 30; i++) {
            if (i == 15) {
                System.out.println(x: "skip");
            } else if (i % 4 == 0) {
                System.out.println(i * 2);
            } else {
                System.out.println(i);
            }
        }
        System.out.println(x: "done");
    }
}
```

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
4
5
6
7
8
9
10
11
12
13
14
skip
32
17
18
19
20
24
28
21
```

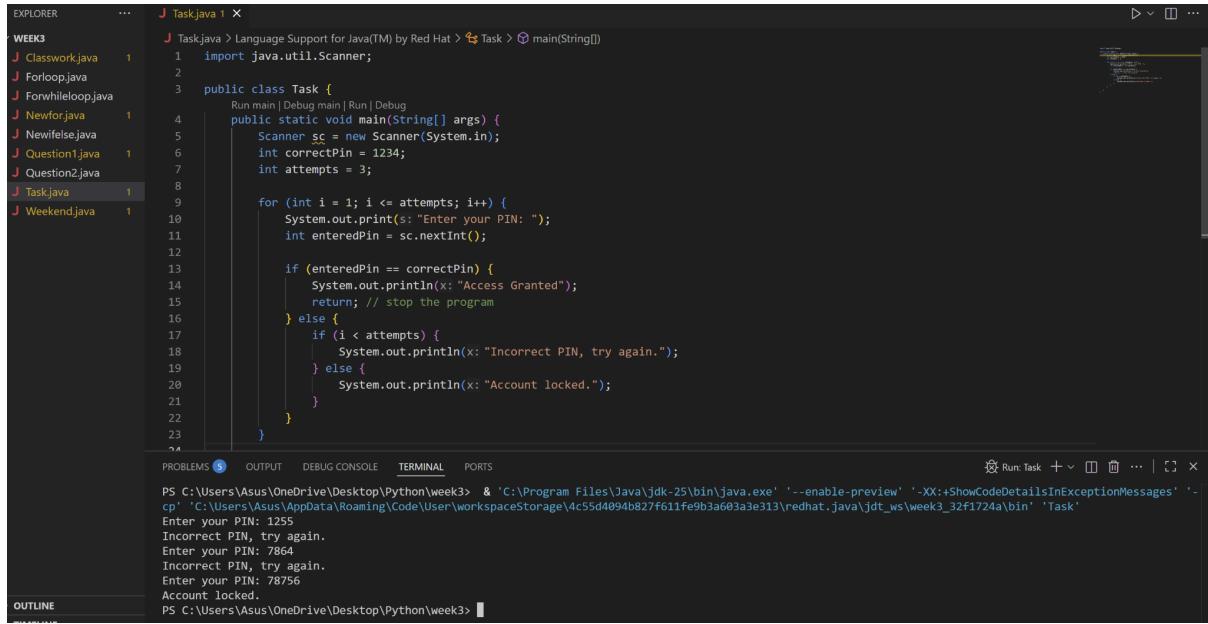
7. Write a Java program that simulates an ATM PIN verification system.

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 shows the Eclipse IDE interface. The code editor displays a Java file named Task.java with the following content:

```
import java.util.Scanner;
public class Task {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        int correctPin = 1234;
        int attempts = 3;

        for (int i = 1; i <= attempts; i++) {
            System.out.print("Enter your PIN: ");
            int enteredPin = sc.nextInt();

            if (enteredPin == correctPin) {
                System.out.println("Access Granted");
                return; // stop the program
            } else {
                if (i < attempts) {
                    System.out.println("Incorrect PIN, try again.");
                } else {
                    System.out.println("Account locked.");
                }
            }
        }
    }
}
```

The terminal window at the bottom shows the execution of the program:

```
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\4c55d4094b827f611fe9b3a6e3a3e313\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>
```