



in collaboration with



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ST4009CEM-LED Learning Project 2

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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.

The screenshot shows a Java code editor with the following code:

```
70
71 public class Student {
72     Run | Debug
73     public static void main(String[] args) {
74         System.out.println("Numbers divisible by 3 or 5, but not both and is between 1 to 50");
75         for (int i = 1; i <= 50; i++) {
76             // Check: divisible by 3 or 5, but not both
77             if ((i % 3 == 0 || i % 5 == 0) && !(i % 3 == 0 && i % 5 == 0)) {
78                 System.out.println(i);
79             }
80         }
81     }
82 }
83
```

The code is a Java program named `Student`. It contains a `main` method that prints a header message and then iterates through numbers from 1 to 50. For each number, it checks if it is divisible by 3 or 5 but not both. If so, it prints the number. The output window shows the numbers 3, 5, 6, 9, 10, 12, 15, 18, 21, 24, 25, 27, 30, 33, 35, 36, 39, 40, 42, 45, 48, and 50.

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.

The screenshot shows a Java code editor interface with a code editor window and a terminal window below it.

Code Editor Content:

```
83 import java.util.Scanner;
84 public class Student {
85     Run | Debug
86     public static void main(String[] args){
87         Scanner sc = new Scanner(System.in);
88         System.out.println("Enter number: ");
89         int num = sc.nextInt();
90         for (int i = 1; i <= num; i++) {
91             if (i % 4 == 0) {
92                 continue;
93             }
94             System.out.print(i + " ");
95         }
96     }
97 }
```

Terminal Output:

```
PS C:\Users\Acer\OneDrive\Desktop\week 1> cd "c:\Users\Acer\OneDrive\Desktop\week 1\" ; if ($?) { javac Student }
? { java Student }
Enter number:
2
1 2
PS C:\Users\Acer\OneDrive\Desktop\week 1>
```

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.

```
101 public class Student {  
102     Run | Debug  
103     public static void main(String[] args) {  
104         System.out.println("FizzBuzz from 1 to 30:");  
105  
106         for (int i = 1; i <= 30; i++) {  
107             if (i % 3 == 0 && i % 5 == 0) {  
108                 System.out.println("FizzBuzz");  
109             } else if (i % 3 == 0) {  
110                 System.out.println("Fizz");  
111             } else if (i % 5 == 0) {  
112                 System.out.println("Buzz");  
113             } else {  
114                 System.out.println(i);  
115             }  
116         }  
117     }  
118 }
```

```
PS C:\Users\Acer\OneDrive\Desktop\week 1> cd "c:\Users\Acer\OneDrive\Desktop\week 1" ; if ($?) { javac Student.java } ; if ($?) { java Student }  
FizzBuzz from 1 to 30:  
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  
PS C:\Users\Acer\OneDrive\Desktop\week 1>
```

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.

```
118 import java.util.Scanner;
119 public class Student {
120     Run | Debug
121     public static void main(String[] args) {
122         Scanner sc = new Scanner(System.in);
123         for (int i = 1; i <= 10; i++) {
124             System.out.print("Enter number" +i+ ": ");
125             int num = sc.nextInt();
126             if (num % 2 == 0 && num > 20) {
127                 System.out.println(num + " is even and greater than 20");
128             }
129         }
130     }
131 }
```

PROBLEMS 1 OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
?) { java Student }
Enter number1: 1
Enter number2: 2
Enter number3: 3
Enter number4: 4
Enter number5: 5
Enter number6: 6
Enter number7: 7
Enter number8: 8
Enter number9: 9
Enter number10: 90
90 is even and greater than 20
PS C:\Users\Acer\OneDrive\Desktop\week 1> 
```

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.

```
137 < public class Student {  
138     Run | Debug  
● 139     public static void main(String[] args) {  
140         int even = 0;  
141         int odd = 1;  
142         for (int i = 1; i <= 10; i++) {  
143             if (i % 2 == 0) {  
144                 even += i;  
145             }  
146             else {  
147                 odd *= i;  
148             }  
149             System.out.println("Sum of even numbers: " + even);  
150             System.out.println("Product of odd numbers: " + odd);  
151         }  
152     }  
153 }
```

PROBLEMS 1 OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
PS C:\Users\Acer\OneDrive\Desktop\week 1> cd "c:\Users\Acer\OneDrive\Desktop\week 1\" ;  
?> { java Student }  
Sum of even numbers: 30  
Product of odd numbers: 945  
PS C:\Users\Acer\OneDrive\Desktop\week 1>
```

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.

```
156  public class Student {
157      Run | Debug
158      public static void main(String[] args) {
159          for (int i = 1; i <= 30; i++) {
160              if (i == 15) {
161                  System.out.println("skip");
162              } else if (i % 4 == 0) {
163                  int d = i + i;
164                  System.out.println(i + " is divisible by 4 and its double is: " + d);
165              } else {
166                  System.out.println(i);
167              }
168          }
169      }
170      System.out.println("done");
171  }
```

```
PS C:\Users\Acer\OneDrive\Desktop\week 1> cd "c:\Users\Acer\OneDrive\Desktop\week 1\" ; if ($?) { javac Student.java } ; if ($?) { java Student }

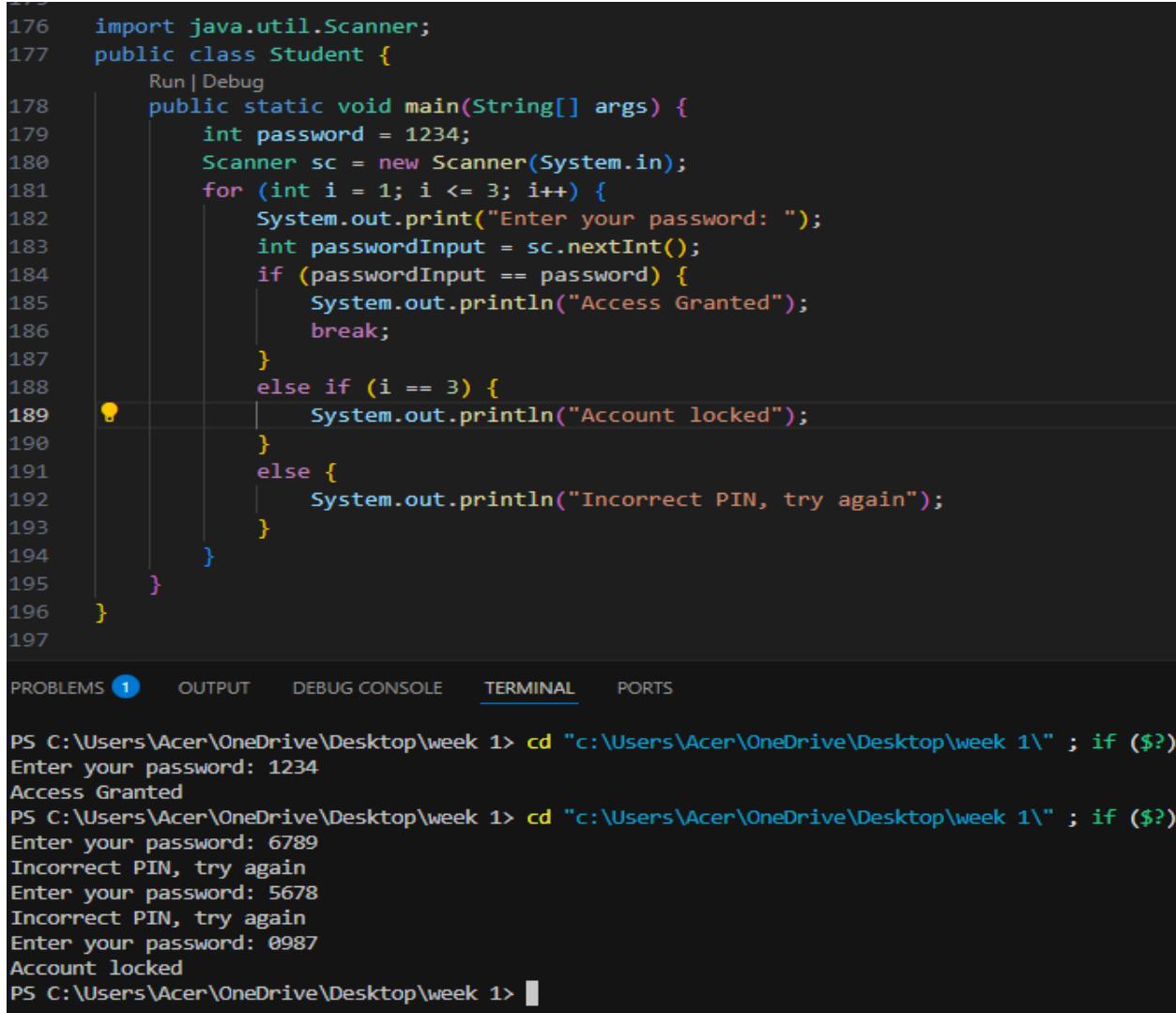
1
2
3
4 is divisible by 4 and its double is: 8
5
6
7
8 is divisible by 4 and its double is: 16
9
10
11
12 is divisible by 4 and its double is: 24
13
14
skip
16 is divisible by 4 and its double is: 32
17
18
19
20 is divisible by 4 and its double is: 40
21
22
23
24 is divisible by 4 and its double is: 48
25
26
27
28 is divisible by 4 and its double is: 56
29
30
done
PS C:\Users\Acer\OneDrive\Desktop\week 1>
```

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".



```
176 import java.util.Scanner;
177 public class Student {
178     Run | Debug
179     public static void main(String[] args) {
180         int password = 1234;
181         Scanner sc = new Scanner(System.in);
182         for (int i = 1; i <= 3; i++) {
183             System.out.print("Enter your password: ");
184             int passwordInput = sc.nextInt();
185             if (passwordInput == password) {
186                 System.out.println("Access Granted");
187                 break;
188             }
189             else if (i == 3) {
190                 System.out.println("Account locked");
191             }
192             else {
193                 System.out.println("Incorrect PIN, try again");
194             }
195         }
196     }
197 }
```

PROBLEMS 1 OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
PS C:\Users\Acer\OneDrive\Desktop\week 1> cd "c:\Users\Acer\OneDrive\Desktop\week 1\" ; if ($?)  
Enter your password: 1234  
Access Granted  
PS C:\Users\Acer\OneDrive\Desktop\week 1> cd "c:\Users\Acer\OneDrive\Desktop\week 1\" ; if ($?)  
Enter your password: 6789  
Incorrect PIN, try again  
Enter your password: 5678  
Incorrect PIN, try again  
Enter your password: 0987  
Account locked  
PS C:\Users\Acer\OneDrive\Desktop\week 1>
```

