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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.

```
70
71 public class Student {
    Run | Debug
72     public static void main(String[] args) {
73         System.out.println("Numbers divisible by 3 or 5, but not both and is between 1 to 50");
74
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
```

PROBLEMS 1 OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
PS C:\Users\Acer\OneDrive\Desktop\week 1> cd "c:\Users\Acer\OneDrive\Desktop\week 1\" ; if ($?) { javac Student.java } ; java Student
Numbers divisible by 3 or 5, but not both and is between 1 to 50
3
5
6
9
10
12
18
20
21
24
25
27
33
35
36
39
40
42
48
50
PS C:\Users\Acer\OneDrive\Desktop\week 1>
```

**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.**

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

PROBLEMS 1 OUTPUT DEBUG CONSOLE TERMINAL PORTS Code +

```
PS C:\Users\Acer\OneDrive\Desktop\week 1> cd "c:\Users\Acer\OneDrive\Desktop\week 1\" ; if ($?) { javac Student.java ; 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 {
    Run | Debug
120     public static void main(String[] args) {
121         Scanner sc = new Scanner(System.in);
122         for (int i = 1; i <= 10; i++) {
123             System.out.print("Enter number" + i + ": ");
124             int num = sc.nextInt();
125             if (num % 2 == 0 && num > 20) {
126                 System.out.println(num + " is even and greater than 20");
127             }
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      public static void main(String[] args) {
139          int even = 0;
140          int odd = 1;
141          for (int i = 1; i <= 10; i++) {
142              if (i % 2 == 0) {
143                  even += i;
144              }
145              else {
146                  odd *= i;
147              }
148          }
149          System.out.println("Sum of even numbers: " + even);
150          System.out.println("Product of odd numbers: " + odd);
151      }
152  }
153
154
```

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 {  
    Run | Debug  
157     public static void main(String[] args) {  
158         for (int i = 1; i <= 30; i++) {  
159             if (i == 15) {  
160                 System.out.println("skip");  
161             }  
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             }  
166             else {  
167                 System.out.println(i);  
168             }  
169         }  
170         System.out.println("done");  
171     }  
172 }
```



```
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
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> |
```

