**In Class Exercise 2**

**Exercise 1 (If else and Logical &&)**

Write a program that allows the user to enter a GPA value and the program displays the appropriate award classification based on the following

|  |  |
| --- | --- |
| **GPA** | **Award** |
| 0-1.99 | Fail |
| 2.0-2.49 | Pass |
| 2.5 or higher | Merit |

**Exercise 2 (If else and Logical &&)**

Write the Java code to find the smallest of 3 given integers, num1, num2 and num3 and store the smallest in the variable minimum. **Note**: keyboard input not required.

**Exercise 3 (If else and Equality ==)**

Write the Java code that will read an event type code, 1 for private and 2 for corporate and will assign C. Larman as manager for private events and Ken Bass as manager for corporate events to an eventManager String. Output the type of event and the manager

**Exercise 4 (.equals)**

Write the code that checks if the string read from the keyboard holds your correct surname, if it does print “ Surname entered correctly” to the monitor.

**Exercise 5 (charAt)**

Write the code to initialise two strings with your first name and last name, extract your initials to variables using chartAt() and output them to the console.

**Exercise 6 (charAt)**

Three letter acronyms are common in business, IDE( Integrated Development Environment), JVM (Java Virtual Machine). Write a program that allows a user to enter three words and display the appropriate three-letter acronym.

**Exercise 7 (if else and ==)**

Write an application for a furniture company, the program determines the price for a table. Ask the user to choose 1 for Oak, 2 for Pine and 3 for Mahogany. The output is the name of the wood chosen and the price of the table. Pine table cost €100, oak tables cost €225 and mahogany tables cost €310. If the user enters an invalid code set the price to 0.

**Exercise 8 (if else and indexOf)**

Write an application that reads a user’s email address into a String variable.

Check that the email address contains the character’@’. If it does not, display a message “Invalid email address”. If it does, display a confirmation message to the user.

**Exercise 9 (switch statement)**

Write the statements to read a month number and output the number of days in that month, assign the correct number of days in the month to a variable numberOFDays

Scanner in = new Scanner(System.in);

int month;

System.out.println("Enter a month number");

**Exercise 10 (new switch statement)**

Rewrite the program from exercise 13 using the new switch statement.