

Practical # 3: Conditional Structures

Task Sheet

1. Develop a mark sheet application in java which fulfills the following requirements:
 - The program takes input from the user marks obtained in three subjects; C++, Data Structures and Operating Systems.
 - The program calculates the total marks obtained out of 300.
 - Calculate the percentage.
 - Display the grade secured according to the following:
 - o 90 > Grade: A
 - o Between 90 and 80 Grade: B
 - o Between 79 and 70 Grade: C
 - o Between 69 and 60 Grade: D
 - o Below 60 Grade: FAIL
2. Develop a java program for calculating the total electricity bill when a user enters the number of units consumed. For the calculations of the total bill consider the following tariff:

| Number of Units | Price PER unit in Rupees |
|------------------|--------------------------|
| Initial 50 units | 10 |
| 50-100 | 15 |
| 101-200 | 20 |
| 201-300 | 25 |
| .301-onwards | 30 |

3. Write a java program that takes a single character as input and tells whether it is a vowel or a consonant.
Note: Use Switch to make this program.
4. Write a java program that performs arithmetic operations on two numbers after taking 3 runtime arguments; 1st number, 2nd number and the operators (+, -, /, *) and prints the result.