Week 07

Exercise 01:
For given average, output the class obtained by a student.
If the average is greater than 75 then the student will obtain 'First Class'
If the average is in between 65 and 75 then the student will obtain 'Second Class (Upper Division)'
If the average is in between 55 and 65 then the student will obtain 'Second Class (Lower Division)'
If the average is in between 40 and 55 then the student will obtain 'Normal Pass'
Otherwise 'Fail'

Exercise 02:
Calculate the electricity bill amount for given units of consumption based on the following criteria:
For the first 50 units, unit price is Rs. 5.00. For the next 30 units, unit price is Rs. 7.00. For the next 60 units, unit price is Rs. 15.00. After that each unit costs Rs. 25.00.
[For example, if the total consumption is 60 units, then the bill amount will be
50 X 5 + 10 X 7 = Rs. 320.00]

Exercise 03:
Calculate the electricity bill for given units based on the following criteria:
If the total consumption is less than 50 units then the unit price is Rs. 5.00.
If the total consumption is in between 50 and 80 then the unit price is Rs. 7.00.
If the total consumption is in between 80 and 140 then the unit price is Rs. 15.00.
If the total consumption is above 140 then the unit price is Rs. 25.00.
[For example, if the total consumption is 60 units, then the bill amount will be
60 X 7 = Rs. 420.00]

Exercise 04:
Write a C++ programme by using if … else if … statement to output the area of a shape based on the input character. (S – Square, R – Rectangle, T – Triangle, C – Circle)
Based on the input character, the user should be asked for the other inputs required for calculating the area of the particular shape.
Sample outputs are given below:

S – Square	S – Square
R – Rectangle	R – Rectangle
T – Triangle	T – Triangle
C – Circle	C – Circle
Enter a character: R ↵	Enter a character: C ↵
Enter length: 10 ↵	Enter radius: 7 ↵
Enter width: 5 ↵	Area is 154.
Area is 50.	

Exercise 05:
Write the above programme by using case statement.