



## Department of Computer Science and Engineering

Course Code: CSE101	Credits: 3
Course Name: Introduction to Computer Science	Semester: Spring 2022

### R Assignment 02

(Solve the following problems in R-studio.)

#### Task 01:

Write a R program that takes the mark as input and prints the grade against that mark.

Input(Mark)	Output(Grade)
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Marks $\geq$ 90	A
90>Mark $\geq$ 85	A-
85>Mark $\geq$ 80	B+
80>Mark $\geq$ 75	B
75>Mark $\geq$ 70	B-
70>Mark $\geq$ 65	C+
65>Mark $\geq$ 60	C
60>Mark $\geq$ 55	C-
Marks<55	F

Example 1:

Input: 93

Output: A

Example 2:

Input: 50

Output: F

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**Task 02:**

Write a R program that takes three inputs from the user and prints the smallest of the three numbers. **(You cannot use any built-in function)**

Example 1:

User Input 1: 2

User Input 2: 1

User Input 3: 7

Output: Smallest number is 1

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**Task 03**

Write a R program that takes an input from the user and prints if the number is:

1. Divisible by 5 and 6

or,

2. Only divisible by 5

or,

3. Only divisible by 6

Example 1:

Input: 5

Output: 5 is only divisible by 5.

Example 2:

Input: 30

Output: 30 is divisible by 5 and 6.

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**Task 04:**

Write a R program that takes two numbers from the user. Then subtracts the smaller number from the larger number, and also prints the result.

Example 1:

User Input 1: 7

User Input 2: 5

Sample Output: 2

Example 2:

User Input 1: 5

User Input 2: 7

Sample Output: 2

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**Task 05:**

Write a R program that takes a number as input, and then prints “The number is even” or “The number is odd”, depending on whether the number is even or odd.

Example 1:

Sample Input: 4

Sample Output: The number is even

Example 2:

Sample Input: 5

Sample Output: The number is odd

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**Task 06:**

Write a R program that takes two numbers as inputs from the user. Your code should print the number that is greater. If both the numbers given by the user are the same, then the code should print “The numbers are equal”.

Example 1:

User Input 1: 7

User Input 2: 5

Sample Output: 7 is greater

Example 2:

User Input 1: 6

User Input 2: 6

Sample Output: The numbers are equal

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### **Task 07:**

Write a R program that takes the weight of luggage as input from the user and prints the total amount the user needs to pay according to the given conditions:

- The user has to pay Tk.200 if the weight is 10kg or less.
- The user has to pay Tk.200 and an additional Tk.50 for every 1 kg over 10kg.
- Also, service charges are 5% of the total weight.
- The maximum weight of luggage is 30kg.

Example 1:

User Input: 5

Sample Output: Payment is: Tk. 200.25

Example 2:

User Input: 20

Sample Output: Payment is: Tk. 701

Example 3:

User Input: 32

Sample Output: The weight is crossing the maximum limit

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