

Refresher Course on

Data Science

Assignment : 3

```
# User input in R Programming Language
user_input = readline(prompt = "Enter an integer: ")
# Convert the input to an integer
user_integer = as.integer(user_input)
```

1. Write a program to read Celsius temperature and print equivalent Fahrenheit temperature on screen using R.
2. Read radius of the circle from user and find the area and perimeter of it using R.
3. Read the amount and percentage of interest from the keyboard and find final amount after adding interest in original amount using R.
4. Write a program to read distance value in meters and convert it into centimeters, inches, and yards using R.
5. Write a Python program to calculate profit or loss. Input is selling cost and actual cost of a product using R.
6. Write a program to input basic salary and find output of gross salary using following:
DA = 75% of basic
HRA = 20% of basic
Conditions:
Basic < 10000 : gross = da + basic
Basic >= 10000 and < 20000 : gross = da + basic + 50% of hra
Basic >= 20000 : gross = basic + da + hra

Sample: Input and Output

5000 : 3750 + 5000 = 8750

12000 : 9000 + 12000 + 1200 = 22200

24000 : 18000 + 24000 + 4800 = 46800

7. Write a program to read a number from user and find the factorial of the number using R.

Example: Factorial for 5 = 5 x 4 x 3 x 2 x 1 = 120
8. Write a program to read num1 and num2 from keyboard and find addition of all number between that range using R.
9. Write a program to read a number from user. Create and use a user defined function to check whether it is odd or even using R?