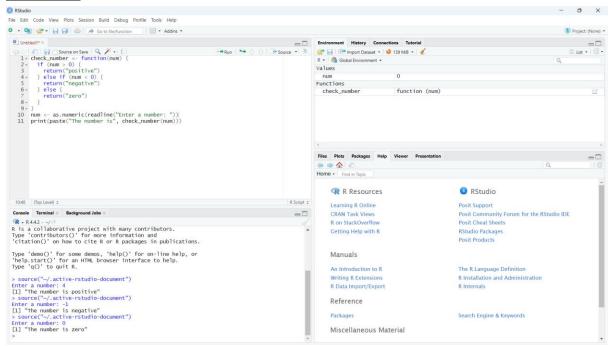
# ICS321 DATA WAREHOUSING AND DATA MINING

## **LAB 2 SUBMISSION -16/01/25**

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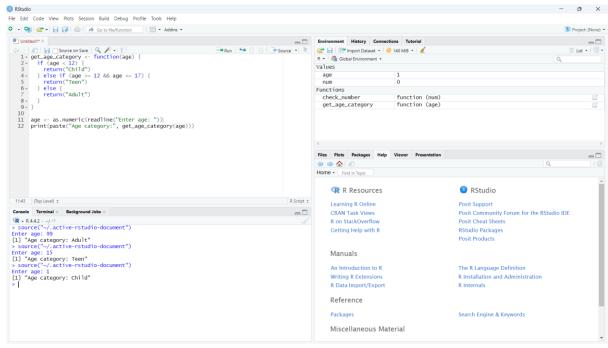
1) Write a function that takes an integer as input and returns whether the number is **positive**, **negative**, or **zero**.



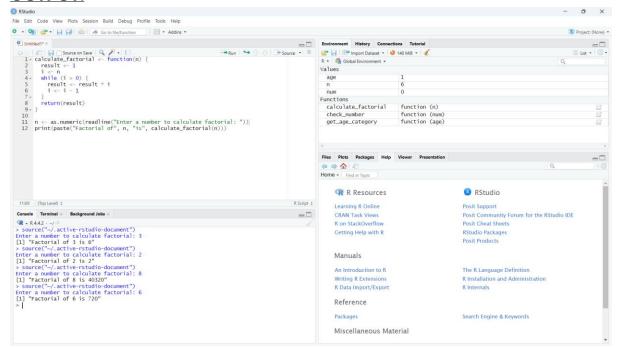
- 2) Write a function that checks the age of a person and returns the age category:
  - "Child" if the age is less than 12,

- "Teen" if the age is between 12 and 17 (inclusive),
- "Adult" if the age is 18 or older.

## **OUTPUT:**

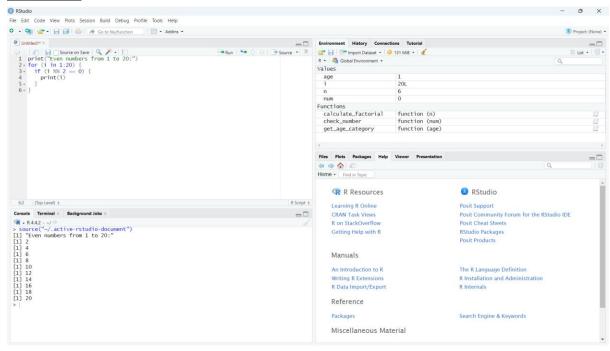


3) Write a while loop to calculate the factorial of a given number n (e.g., 5! = 5 \* 4 \* 3 \* 2 \* 1).

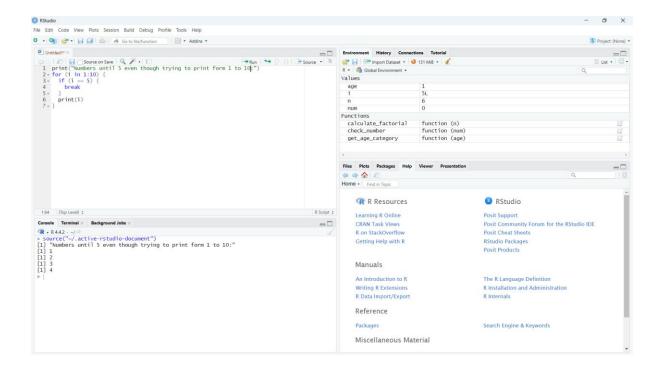


4) Write a for loop that prints all the even numbers from 1 to 20.

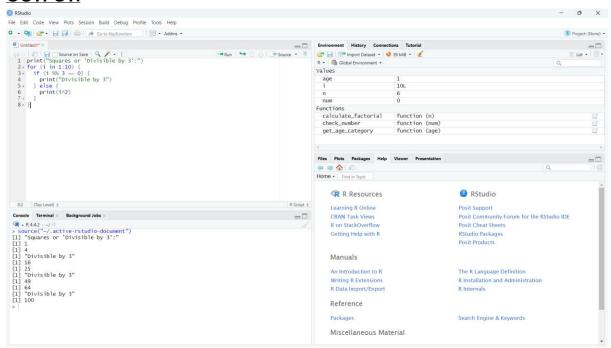
## **OUTPUT:**



5) Write a for loop to print numbers from 1 to 10, but stop (using break) when the number 5 is reached.

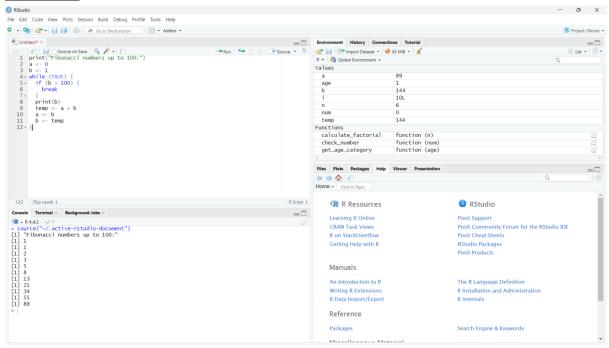


6) Write a for loop that calculates and prints the squares of numbers from 1 to 10. However, for numbers that are divisible by 3, print "Divisible by 3" instead of the square.



7) Write a while loop that generates Fibonacci numbers and stops (using break) when a Fibonacci number exceeds 100.

## **OUTPUT:**



8) Write a for loop inside a while loop to print numbers from 1 to 10. If the current number is divisible by 4, use break to exit the for loop and print a message. Then, continue with the while loop.

