Challenge-6

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Questions

Question-1: Countdown Blastoff (While Loop) Create a program that simulates a rocket launch countdown using a while loop. Start from 10 and countdown to "Blastoff!" with a one-second delay between each countdown number. Print a message when the rocket launches.

Hint: You may want to use cat command to print the countdown and Sys.sleep for incorporating the delay

Output preview: Here is how the countdown could look like

Solutions:

```
# Enter code here
i <- 10
while (i != 0) {
   cat(paste0(i,"..."))
   i <- i-1
   Sys.sleep(1)
}</pre>
## 10...9...8...7...6...5...4...3...2...1...
```

```
cat("Blastoff!")
```

Blastoff!

Question-2: Word Reverser (for Loop) Develop a program that takes a user-entered word and uses a while loop to print the word's characters in reverse order. For example, if the user enters "hello," the program should print "olleh."

Hint: You may want to use substr command to access each character of the input word, and paste command to join the reversed letters one at a time

Solutions:

```
# Enter code here
reversify <- function(word) {
    split_word <- strsplit(word, "")</pre>
```

```
reverse_word <- paste(rev(split_word[[1]]), collapse="")
print(reverse_word)
}
reversify("test")</pre>
```

[1] "tset"