## 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(i, "...")
  i <- i - 1
  Sys.sleep(1)
}
## 10 ...9 ...8 ...7 ...6 ...5 ...4 ...3 ...2 ...1 ...</pre>
cat("\nBlastoff!")
```

```
##
## 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
word <- "happy"
split_character <- c()
for(i in 1:nchar(word)) {
   split_character <- c(split_character, substr(word, i, i))
}
pasteO(rev(split_character), collapse = "")</pre>
```

## [1] "yppah"