Assignment_9.r

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#Language: R
#number of trials
trialCount = 10000
#create an empty list
headCount=list()
for(i in 1:trialCount)
  coin <- c("Heads", "Tails")</pre>
  tempSample <- sample(coin, size = 3, replace = TRUE) #store result of sample
 headCount[i] <- length(tempSample[tempSample=="Heads"]) #calculate number of heads
#This file stores the number of heads in each trial
myFile <- "headCount.txt"</pre>
if (file.exists(myFile))
  invisible(file.remove(myFile))
#Write the data to file, use invisible to suppress output of lapply on console
invisible(lapply(headCount, write, "headCount.txt", append=TRUE))
#Read data from file
headCountNew <- read.table(myFile, header=FALSE)</pre>
#if number of heads>=1, mark as 1
headCountNew[headCountNew >= 1] <- 1</pre>
#count number of 1, hence count number of occurances of at least 1 head
ans<-length(headCountNew[headCountNew==1])</pre>
cat("Fraction = ",ans,"/",trialCount)
```

Fraction = 8737 / 10000