Project 4a-Trading Log 11/27/19, 1:51 PM

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Part 3

Project 4a-Trading Log 11/27/19, 1:51 PM

```
my trading log<-function(arg1 = f2 output$Date, arg2 = f2 output$Tickers ,arg3= f2 ou
tput$Alphas)
  require(quantmod)
  require(openxlsx)
  transaction_type<-rep("Hold", length(arg2))</pre>
  transaction_amount<-rep(NA, length(arg2))</pre>
  my dates<-seq(from= as.Date(arg1),length= 2,by="1 months")[2]</pre>
  for (ticker in 1:length(arg2))
    ticker date<-getSymbols(arg2[ticker], src="yahoo", auto.assign = FALSE, from = ar
g1, to = my_dates)
    i price<-as.numeric(ticker date[1,grep("Open", names(ticker date))])</pre>
    if(arg3[ticker]>0.00000001)
      transaction type[ticker]<-"Buy"</pre>
      transaction amount[ticker]<-floor(10000/i price)</pre>
    }
    else if (arg3[ticker]<(-0.00000001))</pre>
      transaction type[ticker]<-"Sell"
      transaction amount[ticker]<-0
    }
  }
  transaction_df<-data.frame(Date = rep(arg1, length(arg2)), ticker = arg2, transacti
on type = transaction type,
                              transaction_amount = transaction_amount,
                               stringsAsFactors = FALSE)
  write.table(transaction df, file = "transaction log.csv", sep = ",")
  return(transaction_df)
}
my trading log()
```

```
## Loading required package: openxlsx
```

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##		Date	ticker	transaction_type	transaction_amount	
##	1	2018-01-02	DJI	Hold	NA	
##	2	2018-01-02	MMM	Buy	42	
##	3	2018-01-02	AXP	Sell	0	
##	4	2018-01-02	AAPL	Buy	58	
##	5	2018-01-02	BA	Buy	33	
##	6	2018-01-02	CAT	Buy	63	
##	7	2018-01-02	CVX	Sell	0	
##	8	2018-01-02	CSCO	Buy	258	
##	9	2018-01-02	KO	Sell	0	
##	10	2018-01-02	DWDP	Buy	139	
##	11	2018-01-02	MOX	Sell	0	
##	12	2018-01-02	GE	Sell	0	
##	13	2018-01-02	GS	Sell	0	
##	14	2018-01-02	HD	Buy	52	
##	15	2018-01-02	IBM	Sell	0	
##	16	2018-01-02	INTC	Buy	215	
##	17	2018-01-02	JNJ	Buy	71	
##	18	2018-01-02	JPM	Buy	92	
##	19	2018-01-02	MCD	Buy	57	
##	20	2018-01-02	MRK	Sell	0	
##	21	2018-01-02	MSFT	Buy	116	
##	22	2018-01-02	NKE	Buy	159	
##	23	2018-01-02	PFE	Sell	0	
##	24	2018-01-02	PG	Sell	0	
##	25	2018-01-02	TRV	Sell	0	
##	26	2018-01-02	UNH	Buy	45	
##	27	2018-01-02	UTX	Sell	0	
##	28	2018-01-02	VZ	Sell	0	
##	29	2018-01-02	V	Buy	87	
##	30	2018-01-02	TMW	Buy	100	
##	31	2018-01-02	DIS	Sell	0	