#include <stdio.h>

#include <math.h>

int main()

{float u,v,w,x,y;

int a; float b,c,d;

printf("Number of shares brought from Reliance:");

scanf("%d",&a);

printf("Price of each share: ");

scanf("%f",&b);

printf("Market price of each share: ");

scanf("%f",&c);

d=((c-b)\*100)/b;

u=c-b;

int e;float f,g,h;

printf("----------------------\n");

printf("Number of shares brought from Airtel: ");

scanf("%d",&e);

printf("Price of each share: ");

scanf("%f",&f);

printf("Market price of each share: ");

scanf("%f",&g);

h=((g-f)\*100)/b;

v=g-f;

int i; float j,k,l;

printf("----------------------\n");

printf("Number of shares brought from HUL: ");

scanf("%d",&i);

printf("Price of each share: ");

scanf("%f",&j);

printf("Market price of each share: ");

scanf("%f",&k);

l=((k-j)\*100)/b;

w=k-j;

int m; float n,o,p;

printf("----------------------\n");

printf("Number of shares brought from HDFC Bank: ");

scanf("%d",&m);

printf("Price of each share: ");

scanf("%f",&n);

printf("Market price of each share: ");

scanf("%f",&o);

p=((o-n)\*100)/b;

x=o-n;

int q; float r,s,t;

printf("----------------------\n");

printf("Number of shares brought from TCS: ");

scanf("%d",&q);

printf("Price of each share: ");

scanf("%f",&r);

printf("Market price of each share: ");

scanf("%f",&s);

t=((s-r)\*100)/b;

y=s-r;

printf("----------------------------------------------------------------------------------------------------------------------------------------\n");

printf("Sl.no.| Name of stock | Quantity | Price | Market Price |Percent of profit/loss |Amount gain/lost |Profit/Loss |\n");

printf("----------------------------------------------------------------------------------------------------------------------------------------\n");

printf("1 | Reliance Industries Ltd. |%d |%.2f |%.2f | %.2f |%.2f |",a,b,c,d,u); if(c>b) {printf(" Profit\n");} else if(c<b) { printf(" Loss\n");} else{printf(" Break-even\n");}

printf("2 | Bharti Airtel Ltd. |%d |%.2f |%.2f | %.2f |%.2f |",e,f,g,h,v); if(f>e) {printf(" Profit\n");} else if(e<f) { printf(" Loss\n");} else{printf(" Break-even\n");}

printf("3 | Hindustan Unilever Ltd. |%d |%.2f |%.2f | %.2f |%.2f |",i,j,k,l,w); if(k>j) {printf(" Profit\n");} else if(k<j) { printf(" Loss\n");} else{printf(" Break-even\n");}

printf("4 | HDFC Ltd. |%d |%.2f |%.2f | %.2f |%.2f |",m,n,o,p,x); if(o>n) {printf(" Profit\n");} else if(o<n) { printf(" Loss\n");} else{printf(" Break-even\n");}

printf("5 | TATA Consultancy Services |%d |%.2f |%.2f | %.2f |%.2f |",q,r,s,t,y); if(s>r) {printf(" Profit\n");} else if(s<r) { printf(" Loss\n");} else{printf(" Break-even\n");}

printf("Reasons for Performance of stocks\nReliance: : It seeks to raise up to $5 Billion to use these funds to retire existing borrowing.The market remained in a correction period.\nAirtel: There is a bull-call spread in market.In the year 2021. Airtel and Hero Motocorp remained most disappointing stocks also causing a stir with inflation after increasing the prices of their current service packages\nHUL: Statement released to ensure uninterrupted supply as the distributors protest .It becomes one of the top 10 most valued firms of this year.\nHDFC Bank: HDFC Shortcomings in performance of IT department,credit card ban,and slow growth due to pandemic has caused heavy selling by foreign investors and is in process of correction.\nTCS: It becomes the most active stock with highest volume due to various qualitative resaons of acquiring air india,recovery of loss of TATA motors and CAGR reports giving a whooping prediction of 9.45% growth in services.\n");

return 0;}