function updateLive($s,$n,$p) {

global $pdo;

$stockname = $s;

$number = $n;

$pricee = $p;

$number = floatval($number);

//if table does not exist, create it.. otherwise move along

$sql = "SHOW TABLES LIKE '".$stockname."'";

$result = $pdo->prepare($sql);

$result->execute();

$count = $result->rowCount();

if ($count == 0) {

//stock never been bought before

//table does not exist

$pdo->exec("CREATE TABLE $stockname (

ID INT NOT NULL AUTO\_INCREMENT,

shares INT(11),

deltashares INT(11),

price DECIMAL(10,2),

avspent DECIMAL(10,2),

assets DECIMAL(10,2),

cash DECIMAL(10,2),

pl DECIMAL(10,2),

plrate DECIMAL(10,2),

cycle INT(11),

y1 DECIMAL(10,2),

y2 DECIMAL(10,2),

datetime TIMESTAMP,

PRIMARY KEY (ID));");

$sql = "SELECT count(cycle) FROM $stockname";

$zero\_shares = $pdo->prepare($sql);

$zero\_shares->execute();

$shares\_number\_of\_zeros = $zero\_shares->fetchColumn();

$sql = "INSERT INTO $stockname (shares,deltashares,price,avspent,

assets,cash,pl,plrate,cycle,y1,y2) VALUES(?,?,?,?,?,?,?,?,?,?,?)";

$pdo->prepare($sql)->execute([$number\*-1,$number,$pricee,

($number\*$pricee\*-1)/$number,$number\*$pricee\*-1,$number\*$pricee,0,0,

$shares\_number\_of\_zeros+1,$number\*$pricee\*-1,$number\*$pricee\*-1]);

$sql = 'INSERT INTO live (code,shares\_now,price\_now,av\_spent,ass\_now,cash\_now,

pl,pl\_rate,y1,y2) VALUES (?,?,?,?,?,?,?,?,?,?)';

$pdo->prepare($sql)->

execute([$stockname,$number\*-1,$pricee,($number\*$pricee)/$number\*-1,

$number\*$pricee\*-1,$number\*$pricee,0,0,$number\*$pricee\*-1,$number\*$pricee\*-1]);

}

elseif ($count == 1){ //table exists (cycles exist: bought stock before)

$sql = "SELECT count(shares) FROM $stockname WHERE shares = 0";

$zero\_shares = $pdo->prepare($sql);

$zero\_shares->execute();

$shares\_number\_of\_zeros = $zero\_shares->fetchColumn();

$newrow = $pdo->query("SELECT shares,cash,cycle

FROM $stockname ORDER BY datetime DESC LIMIT 1");

$sn\_newrow = $newrow->fetch();

$current\_shares = $sn\_newrow['shares']-$number;

$delta = $number;

$price = $pricee;

$cash = ($delta\*$price)+$sn\_newrow['cash'];

$avspent = $cash / $current\_shares;

$assets = $current\_shares \* $price;

$pl = $assets + $cash;

$cycle = $shares\_number\_of\_zeros + 1;

if ($sn\_newrow['shares'] == 0){ //start new cycle

$sql = "INSERT INTO $stockname (shares,deltashares,price,avspent,

assets,cash,pl,plrate,cycle,y1,y2) VALUES(?,?,?,?,?,?,?,?,?,?,?)";

$pdo->prepare($sql)->execute([

$number\*-1, //how many shares you now own

$number, //deltashares

$pricee, //price

$pricee\*-1, //avspent

$number\*price\*-1, //assets: current shares \* current price

$number\*price, //cash: assets \* -1

0, //pl

0, //plrate

$shares\_number\_of\_zeros + 1, //cycle #

$current\_shares\*$price, //y1: value of shares just bought

$current\_shares\*$price]); //y2: ...

}

else { //continue with ongoing cycle

$sql = "INSERT INTO $stockname (shares,deltashares,price,avspent,

assets,cash,pl,cycle) VALUES(?,?,?,?,?,?,?,?)";

$pdo->prepare($sql)->execute([

$current\_shares,

$delta,

$price,

$avspent,

$assets,

$cash,

$pl,

$cycle]);

$c = $sn\_newrow['cycle'];

$sql = "SELECT ID FROM $stockname WHERE cycle = $c";

$id = $pdo->query($sql)->fetchAll(PDO::FETCH\_COLUMN);

$sql = "SELECT deltashares FROM $stockname";

$delta = $pdo->query($sql)->fetchAll(PDO::FETCH\_COLUMN);

$sql = "SELECT price FROM $stockname";

$pri = $pdo->query($sql)->fetchAll(PDO::FETCH\_COLUMN);

$sql = "SELECT shares FROM $stockname";

$shs = $pdo->query($sql)->fetchAll(PDO::FETCH\_COLUMN);

$sql = "SELECT pl FROM $stockname";

$plc = $pdo->query($sql)->fetchAll(PDO::FETCH\_COLUMN);

$sold = 0;

$bought = 0;

foreach ($id as $i) {

$d = $delta[$i-1];

$p = $pri[$i-1];

$sh = $shs[$i-1];

$pl = $plc[$i-1];

if ($d > 0) {

$sold += makPos($d \* $p);

}

elseif ($d < 0) {

$bought += makPos($d \* $p);

}

elseif ($d == 0) {

$sold += 0;

$bought += 0;

}

$own = $sh \* $p;

}

$rate = (($bought-($sold+$own))/(($sold+$own)))\*100;

$y2 = $bought+$pl;

$sql = "UPDATE $stockname SET plrate=?,y1=?,y2=? ORDER BY datetime DESC LIMIT 1";

$pdo->prepare($sql)->execute([$rate,$bought,$y2]);

}

$tolive = $pdo->query("SELECT plrate,shares,cash,avspent,y1

FROM $stockname ORDER BY datetime DESC LIMIT 1");

$sn\_tolive = $tolive->fetch();

$pricee = getPrice($stockname);

$sql = "UPDATE live SET shares\_now=?, price\_now=?, av\_spent=?, ass\_now=?,

cash\_now=?, pl=?, pl\_rate=?, y1=?, y2=? WHERE code = ?";

$pdo->prepare($sql)->

execute([

$sn\_tolive['shares'],

$pricee,

$sn\_tolive['avspent'],

$sn\_tolive['shares']\*$pricee,

$sn\_tolive['cash'],

($sn\_tolive['shares']\*$pricee)+($sn\_tolive['cash']),

$sn\_tolive['plrate'],

$sn\_tolive['y1'],

$sn\_tolive['y1']+($sn\_tolive['shares']\*$pricee)+($sn\_tolive['cash']),

$stockname

]);

}

}

function intoSn() {

global $pdo;

$sql = "SELECT code FROM live";

$scode = $pdo->query($sql)->fetchAll(PDO::FETCH\_COLUMN);

foreach ($scode as $s) {

$shares = $pdo->query("SELECT shares

FROM $s ORDER BY datetime DESC LIMIT 1");

$sn\_shares = $shares->fetch();

if ($sn\_shares['shares'] != 0) {

$cycle = $pdo->query("SELECT cycle

FROM $s ORDER BY datetime DESC LIMIT 1");

$sn\_cyc = $cycle->fetch();

$cash = $pdo->query("INSERT INTO $s (shares,price,avspent,assets,cash,

pl,plrate) SELECT shares\_now,price\_now,av\_spent,

ass\_now,cash\_now,pl,pl\_rate FROM live WHERE code = '$s'");

$sn\_cash = $cash->fetch();

$pl = $pdo->query("SELECT pl

FROM $s ORDER BY datetime DESC LIMIT 1");

$sn\_pl = $pl->fetch();

$sql = "UPDATE $s SET deltashares = ?, cycle = ?

ORDER BY datetime DESC LIMIT 1";

$pdo->prepare($sql)->execute([0,$sn\_cyc['cycle']]);

}

}

}

function intoNet() {

global $pdo;

$sql = "SELECT code FROM live";

$scode = $pdo->query($sql)->fetchAll(PDO::FETCH\_COLUMN);

$pltotal = array();

foreach ($scode as $s) {

$sql = "SELECT pl FROM $s WHERE shares = 0";

$zero\_pls = $pdo->query($sql)->fetchAll(PDO::FETCH\_COLUMN);

foreach ($zero\_pls as $z) {

array\_push($pltotal, $z);

}

$newrow = $pdo->query("SELECT pl

FROM $s ORDER BY datetime DESC LIMIT 1");

$sn\_newrow = $newrow->fetch();

array\_push($pltotal, $sn\_newrow['pl']);

}

$sumpl = array\_sum($pltotal);

$sql = "INSERT INTO net (sumpl) VALUES(?)";

$pdo->prepare($sql)->execute([$sumpl]);

}