**Pseudocode to append data**

**Start**

Declare and initialize int *k* ← 1st column **// entry point for data**

Declare and initialize int *j* ← 2nd row in 1st column

Declare and initialize int *N* **// N is total number of different crypto currencies**

for (int *i*=0; *i*<=*N*; *i*++)

# Start loop

If *N*th column cell value is not equal to value of *j*

{

Then

Append *j* value into *N*th column

}

*J*++

Continue for all the *N* columns

# End loop

**//To find max price**

Declare and initialize int *value* ← 1st\_column\_cell\_value

Declare and initialize int *max\_value* ← cell\_value\_in\_max\_column

If (value > max\_value)

{

Append

Value into max\_value

Get timestamp and append

}

**//To find min price**

int *value* ← 1st\_column\_cell\_value

int *min\_value* ← cell\_value\_in\_max\_column

If (value < min\_value)

{

Append

Value into min\_value

Get timestamp and append

}

**End**