Requirements:

Software : python (any version) **Recommended :** Latest

Python Libraries: pandas version:1.4.2

openpyxl version: 3.0.9

Installation cmd: pip install pandas

pip install openpyxl

Code:

```
from tracemalloc import start
import pandas as pd
filepath=input("Enter the File path : ")
# input for creating attendance sheets
range_input=list(map(int,input("Enter range list : ").split(" ")))
#print(filepath)
data_orig = pd.read_excel(filepath)
#creating attendance sheets and index for attendance percentagw
total_ent = []
unique_ent = []
attendance = []
                                                  # reading excel file by its
path
for i in range_input:
    sh name = '<'+str(i)+' ATTENDANCE'</pre>
    select=data_orig[data_orig['ATTENDANCE PERCENTAGE'].between(0,i)]
Sorting of elements based on the range inputs from user
    print(select)
                                                                 # displaying
selected values
    writer_new=pd.ExcelWriter(path=filepath, if_sheet_exists =
 replace',mode='a',engine='openpyxl')
    select.to_excel(excel_writer=writer_new, sheet_name =
sh name)
                                 # appending the selected values on the specific
sheet of the excel file
   writer_new.save()
    total ent.append(select.shape[0])
```

```
unique_ent.append(select.nunique( axis = 'rows')['REG. NO.'])
    attendance.append(sh name)
    writer new.save()
try:
    data index = pd.read excel(filepath, sheet name = 'Index')
    row_count = data_index.shape[0]
except:
    row_count = 0
writer_ovr = pd.ExcelWriter(path=filepath, if_sheet_exists = 'overlay',
mode='a',engine='openpyxl')
index_df = pd.DataFrame({'Total Number of Entries': total_ent, 'No. of Students':
unique_ent, 'Attendance': attendance})
if row count == 0:
    index_df.to_excel(excel_writer=writer_ovr, sheet_name = 'Index', index=False)
else:
    index_df.to_excel(excel_writer=writer_ovr, sheet_name = 'Index', index=False,
startrow=row_count+1, header = False)
writer_ovr.save()
writer new.close()
writer_ovr.close()
#creating attendance sheets and index and avg attendance
std regno = ''
att sum = 0
count = 0
avg attendance = []
for ind in data orig.index:
    regno = data_orig['REG. NO.'][ind]
    if regno == std regno:
        att_sum += data_orig['ATTENDANCE PERCENTAGE'][ind]
        count += 1
    else:
        if std_regno != '':
            for _ in range(count):
                avg attendance.append((round(att sum/count)))
```

```
std regno = regno
        att_sum = data_orig['ATTENDANCE PERCENTAGE'][ind]
        count = 1
for _ in range(count):
    avg attendance.append((round(att sum/count)))
data orig['ATTENDANCE AVG'] = avg attendance
writer_new=pd.ExcelWriter(path=filepath, if_sheet_exists = 'replace', mode='a',
engine='openpyxl')
data_orig.to_excel(excel_writer=writer_new, sheet_name =
'ATTENDANCE_REPORT_FSPG', index=False)
                                                                # appending the
selected values on the specific sheet of the excel file
writer_new.save()
total_ent = []
unique_ent = []
attendance = []
for i in range input:
    sh name = '<'+str(i)+' ATTENDANCE AND OVERALL AVG <'+str(i)</pre>
    select=data_orig[data_orig['ATTENDANCE PERCENTAGE'].between(0,i)]
    select=data_orig[data_orig['ATTENDANCE AVG'].between(0,i)]
                                                                        # Sorting
of elements based on the range inputs from user
    print(select)
                                                                  # displaying
selected values
    select.to_excel(excel_writer=writer_new, sheet_name =
sh name)
                                 # appending the selected values on the specific
sheet of the excel file
    writer new.save()
    total ent.append(select.shape[0])
    unique_ent.append(select.nunique( axis = 'rows')['REG. NO.'])
    attendance.append(sh_name)
    writer_new.save()
try:
    data_index = pd.read_excel(filepath, sheet_name = 'Index')
    row_count = data_index.shape[0]
except:
   row count = 0
```

```
writer_ovr = pd.ExcelWriter(path=filepath, if_sheet_exists = 'overlay',
mode='a',engine='openpyxl')
index_df = pd.DataFrame({'Total Number of Entries': total_ent, 'No. of Students':
unique_ent, 'Attendance': attendance})
if row_count == 0:
    index_df.to_excel(excel_writer=writer_ovr, sheet_name = 'Index', index=False)
else:
    index_df.to_excel(excel_writer=writer_ovr, sheet_name = 'Index', index=False,
startrow=row_count+1, header = False)

writer_ovr.save()
writer_ovr.close()
writer_ovr.close()
```

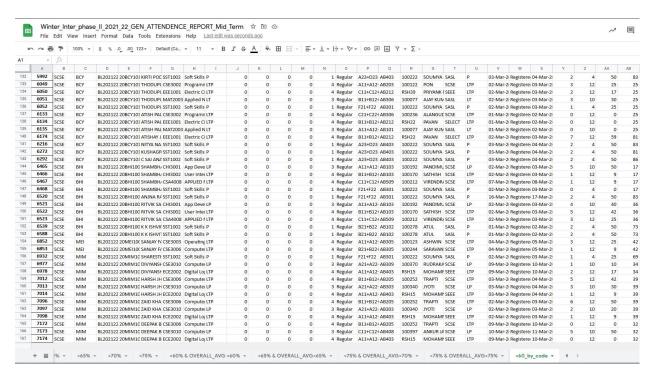
Output at Terminal:

Note:

In order to view the output on excel file. Kindly Upload the .xlsx file to google slide and then view it.

In MS Excel the file may get corrupted due to software integrity policy violations in MS Excel

Output on Excel file with Sheet_name=" <60_by_code



Output on Index sheet of excel file

