```
IMPORT LIBRARIES
requests
json
smtplib
MIMEText
MIMEMultipart
YAML
DateTime
```

```
DEFINE METHODS
Welcome_message
Yaml_pull
Yaml_push
Closure_email
Send_email
String_creater
Weather_record
Weather_report_output
```

Declare Top-Level Variables
Zipcode_List
Closure_List
Report_text_holder
Formatted Time
Text

Call
Welcome Message

Initialize For Loop

For Loop
Iterate through each
ZipCode

FALSE

TRUE

Declare base URL for API

GET request for base
URL passed to "response"
variable

"Response" variable called. API request via JSON

API data parsed and passed to variables
"Main_Info"
"City"
"fehrenheit"
"Weather_Macro'

pass city, temp and weather type to method. Call print method on Weather_report_output method

IF BOOLEAN LOOP IS TEMP BELOW 32F.

FALSE

TRUE

Pass city variable to Closure_list list.

END BOOLEAN LOOP

```
Call Weather Record on
text variable
(ie: create lead
information for document
output
```

```
IF STATEMENT
BOOLEAN LOOP

DOES CLOSURE LIST
CONTAIN MORE THAN
0 ELEMENTS?
```

FALSE

TRUE

```
Print string
"Following offices need to be
closed"
```

```
NESTED FOR LOOP
ITERATE THROUGH EACH
OFFICE IN CLOSURE LIST
```

```
PRINT OFFICE
```

```
declare path variable. pass file
name string to variable
```

```
                          ┌─────────────────────────┐
                          │ declare path variable.  │
                          │ pass file name string   │
                          │ to variable             │
                          └─────────────────────────┘
                                      │
                                      ▼
                          ┌─────────────────────────┐
                          │ Pass Yaml_Pull path     │
                          │ arguement               │
                          │ Call Yaml_Pull method   │
                          └─────────────────────────┘
                                      │
                                      ▼
                          ┌─────────────────────────┐
                          │ declare office_dictionary│
                          │ variable.               │
                          │ GET Request from YAML.   │
                          │ pull dictionary from text│
                          │ document                │
                          │ (ir: offices and emails)│
                          └─────────────────────────┘
                                      │
                                      ▼
         FALSE             ┌─────────────────────────┐
                          │ FOR LOOP                │
                          │ ITERATE THROUGH OFFICE  │
                          │ DICTIONARY FOR OFFICE   │
                          │ LOCATION AND MANAGER    │
                          │ EMAIL                   │
                          └─────────────────────────┘
                                      │
                                   TRUE
                                      │
                                      ▼
                          ┌─────────────────────────┐
                          │ FOR LOOP                │
                          │ ITERATE THROUGH OFFICE  │
                          │ DICTIONARY FOR OFFICE   │
                          │ LOCATION AND MANAGER    │
                          │ EMAIL                   │
                          └─────────────────────────┘
                                      │
                                      ▼
                                ┌───────────────────┐
                                │ IF BOOLEAN CHECK  │
                                │ SEE IF OFFICE IS IN│
                                │ CLOSURE LIST      │
                                └───────────────────┘
                                      │
                                   TRUE
                                      │
         FALSE                        ▼
                                ┌───────────────────┐
                                │ Pass email,       │
                                │ manager_email and │
                                │ office_location to send│
                                │ email location.   │
                                │ call send_email method│
                                └───────────────────┘
```

break

END BOOLEAN
CHECK

Print Goodbye Statement

PROGRAM END