```
In [1]:
```

692

693

695

696

)

**-->** 694

```
import cv2
import math
# input path to video
videoFile = str(input("Enter input to video:"))
# output path for frames
framesFolder = str(input("Enter output path for frames:"))
cap = cv2.VideoCapture(videoFile)
# find frame rate of video
frameRate = cap.get(5)
while cap.isOpened() :
      current frame number
    frameId = cap.get(1)
    ret, frame = cap.read()
    if (ret != True) :
    if int(frameId) % math.floor(frameRate) == 0 :
        filename = framesFolder + "/image " + str(int(frameId)) + ".jpg"
#
          cv2.imshow(filename, frame)
        cv2.imwrite(filename, frame)
cap.release()
print "Done!"
KeyboardInterrupt
                                           Traceback (most recent cal
l last)
<ipython-input-1-781e227a8c96> in <module>()
      2 import math
      3 # input path to video
---> 4 videoFile = str(input("Enter input to video:"))
      5 # output path for frames
      6 framesFolder = str(input("Enter output path for frames:"))
/Users/arin/anaconda3/envs/py27/lib/python2.7/site-packages/ipykerne
1/ipkernel.pyc in <lambda>(prompt)
    162
                    self._sys_eval_input = builtin_mod.input
    163
                    builtin mod.raw input = self.raw input
--> 164
                    builtin mod.input = lambda prompt='': eval(self.
raw input(prompt))
    165
                self. save getpass = getpass.getpass
    166
                getpass.getpass = self.getpass
/Users/arin/anaconda3/envs/py27/lib/python2.7/site-packages/ipykerne
l/kernelbase.pyc in raw input(self, prompt)
```

self.\_parent\_ident,

password=False,

self. parent header,

```
word)
    722
                     except KeyboardInterrupt:
                         # re-raise KeyboardInterrupt, to truncate tr
    723
aceback
--> 724
                         raise KeyboardInterrupt
    725
                     else:
    726
                         break
KeyboardInterrupt:
step 2.1: fetching captioning information and coordinate information form results to seperate .json file
In [3]:
import json
import os
i = 0
for file1 in os.listdir('/Users/arin/Desktop/final yr project/frame extract/colle
    print(file1)
    s = json.load(open('/Users/arin/Desktop/final yr project/frame extract/colleg
    for imginfo in s['results'] :
        json.dump(imginfo, open('/Users/arin/Desktop/final_yr_project/frame_extra
results1.json
results2.json
results3.json
results4.json
step 2.2: calculating (x1, y1) to (x4, y4) from x, y, h, w information
In [5]:
import os
for file in os.listdir('/Users/arin/Desktop/final yr project/frame extract/colleg
    s = json.load(open('/Users/arin/Desktop/final yr project/frame extract/colleg
    1 = []
    for crd in s['boxes'] :
        x1, y1 = crd[0], crd[1]
        h, w = crd[2], crd[3]
#
          print('x1:{} y1:{} h:{} w:{}'.format(x1, y1, h, w))
        x2, y2 = x1 + h, y1
        x3, y3 = x1 + h, y1 + w
        x4, y4 = x1, y1 + w
        t = (x1, y1, x2, y2, x3, x3, x4, y4)
#
          print('x1:{} y1:{} x2:{} y2:{} x3:{} y3:{} x4:{} y4:{}\n'.format(x1,y1,
        1.append(t)
    print(1)
    print('----
                     ----')
    json.dump(l, open('/Users/arin/Desktop/final_yr_project/frame_extract/college
    i = i + 1
    1 = []
```

l/kernelbase.pyc in \_input\_request(self, prompt, ident, parent, pass

```
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81.65042114258), (143.1615447998, 323.6611328125, 200.279647827144,
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632.453247070315, 597.20593261719, 232.898468017578), (96.2549362182
62, 313.11669921875, 151.307479858399, 313.11669921875, 151.30747985
8399, 151.307479858399, 96.254936218262, 401.327331542969)]
```

5.49859619141, 128.1202545166, 626.794860839848, 128.1202545166, 626

step 2.3: grouping boxes togather for a particular object, save it in a separate file into /Users/arin/Desktop/final\_yr\_project/frame\_extract/college/grouping/{}

```
In [6]:
import os
import json
k = 0
for file in os.listdir('/Users/arin/Desktop/final_yr_project/frame_extract/colleg
    1 = json.load(open('/Users/arin/Desktop/final yr project/frame extract/colleg
    inclv = \{\}
    i = 0
    for crd in l[:]:
        j = 0
        temp = \{\}
        for test in l[:]:
               for complete inclusive boxes
             if (\text{test}[0] > \text{=crd}[0] and \text{test}[1] > \text{=crd}[1]) and (\text{test}[2] < \text{=crd}[2] and \text{test}[2]
                 temp[j] = test
               for partly inclusive boxes
             elif (test[0] + 10 >= crd[0] and test[1] + 10 >= crd[1]) and (test[2])
                 temp[j] = test
             j = j + 1
        if len(temp.keys()) == 0:
             inclv[i] = \{\}
        else:
             inclv[i] = temp
        i = i + 1
    print(inclv)
    print('----
    json.dump(inclv, open('/Users/arin/Desktop/final yr project/frame extract/col
    k = k + 1
{0: {11: [51.84899520874, 275.00497436523, 127.55344772338799, 275.0
0497436523, 127.55344772338799, 127.55344772338799, 51.84899520874,
```

```
344.33584594726096], 14: [76.925300598145, 191.04260253906, 213.5232
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0293, 212.371856689452, 223.3932800293, 212.371856689452, 212.371856
689452, 137.48077392578, 330.74148559571], 31: [3.2427024841309, 185
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5.6408195495609, 3.2427024841309, 237.346237182621], 40: [21.3300476
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34082, 109.85432434082, 21.330047607422, 324.88952636719], 54: [88.4]
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.793441772461, 142.793441772461, 88.472877502441, 294.281219482418],
57: [91.116119384766, 260.08520507812, 179.279998779297, 260.0852050
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0292964], 59: [39.538791656494, 197.42950439453, 149.942569732664, 1
97.42950439453, 149.942569732664, 149.942569732664, 39.538791656494,
243.285827636718], 77: [0.4094295501709, 257.30526733398, 51.8016414
642329, 257.30526733398, 51.8016414642329, 51.8016414642329, 0.40942
```

step 2.4: grouping of captions complete inclusive and partly inclusive updated

```
In [8]:
```

```
import os
import json
```

```
x = 0
y = 1
g = 0
i = 0
cpt = {}
for file in os.listdir('/Users/arin/Desktop/final yr project/frame extract/colleg
    1 = json.load(open('/Users/arin/Desktop/final yr project/frame extract/colleg
    if i == 2:
        i = 0
        y = y + 1
    r = json.load(open('/Users/arin/Desktop/final yr project/frame extract/colleg
    c = r['results'][i]['captions']
    for key in 1:
        cptlist = []
        for k in l[key].keys():
            t = \{k:c[int(k)]\}
            cptlist.append(t)
        cpt[str((key, c[int(key)]))] = cptlist
    i = i + 1
    print(cpt)
    print('----')
    json.dump(cpt, open('/Users/arin/Desktop/final_yr_project/frame_extract/colle
{"('0', 'a black car parked on the street')": [{'11': 'license plate
on the car'}, {'14': 'the car is blue'}, {'20': 'a silver car'}, {'3
1': 'a black and white sign'}, {'40': 'the car is black'}, {'54': 't
he car is black'}, {'57': 'the front of a car'}, {'59': 'the car is
blue'}, {'77': 'a car on the road'}, {'80': 'a black car'}, {'83': '
the car is blue'}], "('1', 'a white wall')": [{'4': 'a white door'},
{'12': 'white metal pole'}, {'21': 'green leaves on tree'}, {'22': '
a street light on a pole'}, {'24': 'a building in the background'},
{'26': 'a white and black door'}, {'27': 'green leaves on tree'}, {'
28': 'a light on a pole'}, {'29': 'a patch of grass'}, {'30': 'a tre
```

e in the background'}, {'33': 'a black door on the wall'}, {'41': 'a light on the wall'}, {'48': 'a white wall'}, {'51': 'a black pole'}, {'52': 'white door on the building'}, {'64': 'a white door on the bu ilding'}, {'67': 'a white building'}, {'69': 'a white door on the do or'}, {'71': 'a door on the side of a train'}, {'74': 'a black metal pole'}, {'75': 'the sidewalk is made of bricks'}, {'76': 'green gras s growing on the side of the road'}, {'81': 'a green and white train '}, {'86': 'a green plant on the wall'}, {'87': 'a pole in the backg round'}, {'88': 'a white door on the wall'}, {'96': 'a brown wooden door'}, {'102': 'a white wall'}, {'103': 'a tree in the background'} , {'105': 'white pole in the background'}, {'106': 'white paint on t he door'}, {'108': 'part of a floor'}, {'110': 'part of a floor'}, { '111': 'a black and white sign'}, {'112': 'a green and white house'} , {'113': 'part of a floor'}, {'114': 'part of a white wall'}, {'115 ': 'white paint on wall'}, {'116': 'part of a white wall'}, {'117': 'part of a wall'}], "('2', 'a car parked in a parking lot')": [{'0': 'a black car parked on the street'}, {'6': 'a small green bush'}, {' 8': 'green plant growing on the ground'}, {'9': 'a paved road'}, {'1 1': 'license plate on the car'}, {'13': 'a small tree'}, {'14': 'the car is blue'}, {'15': 'green tree in front of building'}, {'16': 'pl ant in front of a window'}, {'17': 'a red and white sign'}, {'19': ' a white car parked on the street'}, {'20': 'a silver car'}, {'23': ' a sidewalk with a lot of tracks'}, {'25': 'leaves on the ground'}, { '30': 'a tree in the background'}, {'31': 'a black and white sign'},

```
{'32': 'a person standing on the sidewalk'}, {'34': 'green leaves on
the ground'}, {'37': 'window on a building'}, {'38': 'a person stand
ing on a sidewalk'}, {'39': 'a tree on the sidewalk'}, {'40': 'the c
ar is black'}, {'42': 'a small tree on the sidewalk'}, {'43': 'a tre
e in the background'}, {'44': 'a white building with a red roof'}, {
'45': 'green leaves on the tree'}, {'46': 'a train track'}, {'47': '
a patch of dirt'}, {'50': 'a white car on the road'}, {'53': 'a hous
e in the background'}, {'54': 'the car is black'}, {'56': 'dirt on t
he ground'}, {'57': 'the front of a car'}, {'59': 'the car is blue'}
, {'60': 'the car is black'}, {'61': 'a small door on the building'}
, {'62': 'green tree on the side of the road'}, {'63': 'a green tree
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a car parked on the street'}, {'68': 'a window on a building'}, {'71
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}, {'76': 'green grass growing on the side of the road'}, {'77': 'a
car on the road'}, {'78': 'a green bush'}, {'79': 'the ground is mad
e of concrete'}, {'80': 'a black car'}, {'81': 'a green and white tr
ain'}, {'82': 'green leaves on the tree'}, {'83': 'the car is blue'}
, {'89': 'a window on a building'}, {'90': 'white car parked on the
street'}, {'91': 'a green tree'}, {'92': 'window on a building'}, {'
93': 'a window on a building'}, {'94': 'green leaves on the tree'},
{'95': 'a tree in the background'}, {'98': 'a green tree in front of
the building'}, {'100': 'window on the building'}, {'104': 'part of
a floor'}, {'106': 'white paint on the door'}, {'109': 'a green bush
'}, {'112': 'a green and white house'}, {'118': 'white line on the r
oad'}], "('3', 'a tree in the background')": [{'15': 'green tree in
front of building'}, {'36': 'a tree in the distance'}, {'53': 'a hou
se in the background'}, {'61': 'a small door on the building'}, {'63
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lding'}, {'97': 'power lines in the sky'}, {'99': 'power lines in th
e sky'}, {'101': 'power lines in the sky'}, {'107': 'a tree in the d \,
istance'}], "('4', 'a white door')": [{'26': 'a white and black door
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door'}, {'117': 'part of a wall'}], "('5', 'a tree with green leaves
')": [{'13': 'a small tree'}, {'16': 'plant in front of a window'},
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ewalk'}, {'35': 'palm tree in the background'}, {'38': 'a person sta
nding on a sidewalk'}, {'42': 'a small tree on the sidewalk'}, {'45'
: 'green leaves on the tree'}, {'65': 'a tree on the sidewalk'}, {'7
2': 'a shadow on the ground'}, {'76': 'green grass growing on the si
de of the road'}, {'78': 'a green bush'}, {'82': 'green leaves on th
e tree'}, {'91': 'a green tree'}, {'92': 'window on a building'}, {'
94': 'green leaves on the tree'}, {'95': 'a tree in the background'}
, {'98': 'a green tree in front of the building'}, {'100': 'window o
n the building'}, {'109': 'a green bush'}], "('6', 'a small green bu
sh')": [{'8': 'green plant growing on the ground'}, {'16': 'plant in
front of a window'}, {'45': 'green leaves on the tree'}, {'78': 'a g
reen bush'}, {'82': 'green leaves on the tree'}, {'92': 'window on a
building'}, {'94': 'green leaves on the tree'}, {'95': 'a tree in th
e background'}, {'98': 'a green tree in front of the building'}, {'1
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green leaves on tree'}], "('8', 'green plant growing on the ground')
": [], "('9', 'a paved road')": [{'8': 'green plant growing on the g
round'}, {'11': 'license plate on the car'}, {'34': 'green leaves on
the ground'}, {'56': 'dirt on the ground'}, {'57': 'the front of a c
```

```
ar'}, {'60': 'the car is black'}, {'79': 'the ground is made of conc
rete'}, {'104': 'part of a floor'}, {'118': 'white line on the road'
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'a black pole'}, {'52': 'white door on the building'}, {'67': 'a whi
te building'}, {'74': 'a black metal pole'}, {'88': 'a white door on
the wall'}], "('13', 'a small tree')": [{'38': 'a person standing on
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n bush'}, {'94': 'green leaves on the tree'}, {'109': 'a green bush'
}], "('14', 'the car is blue')": [], "('15', 'green tree in front of
building')": [], "('16', 'plant in front of a window')": [], "('17',
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{'101': 'power lines in the sky'}, {'107': 'a tree in the distance'}
], "('19', 'a white car parked on the street')": [{'31': 'a black an
d white sign'}, {'50': 'a white car on the road'}, {'53': 'a house i
n the background'}, {'59': 'the car is blue'}, {'66': 'a car parked
on the street'}, {'78': 'a green bush'}, {'82': 'green leaves on the
tree'}, {'83': 'the car is blue'}, {'90': 'white car parked on the s
treet'}, {'98': 'a green tree in front of the building'}], "('20', '
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rown wooden door'}, {'112': 'a green and white house'}], "('22', 'a
street light on a pole')": [], "('23', 'a sidewalk with a lot of tra
cks')": [{'72': 'a shadow on the ground'}], "('24', 'a building in t
he background')": [{'26': 'a white and black door'}, {'30': 'a tree
in the background'}, {'86': 'a green plant on the wall'}, {'96': 'a
brown wooden door'}, {'112': 'a green and white house'}], "('25', 'l
eaves on the ground')": [], "('26', 'a white and black door')": [],
"('27', 'green leaves on tree')": [], "('28', 'a light on a pole')":
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sidewalk')": [], "('40', 'the car is black')": [], "('41', 'a light
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th a red roof')": [], "('45', 'green leaves on the tree')": [], "('4
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white wall'}], "('49', 'a concrete sidewalk')": [{'55': 'a shadow on
the ground'}, {'72': 'a shadow on the ground'}, {'75': 'the sidewalk
is made of bricks'}, {'108': 'part of a floor'}, {'110': 'part of a
floor'}, {'113': 'part of a floor'}, {'116': 'part of a white wall'}
, {'117': 'part of a wall'}], "('50', 'a white car on the road')": [
], "('51', 'a black pole')": [], "('52', 'white door on the building
```

```
')": [], "('53', 'a house in the background')": [{'61': 'a small doo
r on the building'}], "('54', 'the car is black')": [], "('55', 'a s
hadow on the ground')": [{'75': 'the sidewalk is made of bricks'}],
"('56', 'dirt on the ground')": [], "('57', 'the front of a car')":
[], "('58', 'a house with a roof')": [], "('59', 'the car is blue')"
: [], "('60', 'the car is black')": [], "('61', 'a small door on the
building')": [], "('62', 'green tree on the side of the road')": [],
"('63', 'a green tree in front of a building')": [], "('64', 'a whit
e door on the building')": [], "('65', 'a tree on the sidewalk')": [
], "('66', 'a car parked on the street')": [], "('67', 'a white buil
ding')": [], "('68', 'a window on a building')": [], "('69', 'a whit
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n')": [], "('72', 'a shadow on the ground')": [], "('73', 'green lea
ves on tree')": [{'84': 'green leaves on tree'}, {'112': 'a green an
d white house'}], "('74', 'a black metal pole')": [], "('75', 'the s
idewalk is made of bricks')": [], "('76', 'green grass growing on th
e side of the road')": [], "('77', 'a car on the road')": [], "('78'
, 'a green bush')": [], "('79', 'the ground is made of concrete')":
[{'104': 'part of a floor'}], "('80', 'a black car')": [], "('81', '
a green and white train')": [], "('82', 'green leaves on the tree')"
: [], "('83', 'the car is blue')": [], "('84', 'green leaves on tree
')": [], "('85', 'a house in the background')": [{'93': 'a window on
a building'}, {'100': 'window on the building'}], "('86', 'a green p
lant on the wall')": [], "('87', 'a pole in the background')": [], "
('88', 'a white door on the wall')": [], "('89', 'a window on a buil
ding')": [], "('90', 'white car parked on the street')": [], "('91',
'a green tree')": [], "('92', 'window on a building')": [], "('93',
'a window on a building')": [], "('94', 'green leaves on the tree')"
: [], "('95', 'a tree in the background')": [], "('96', 'a brown woo
den door')": [], "('97', 'power lines in the sky')": [], "('98', 'a
green tree in front of the building')": [], "('99', 'power lines in
the sky')": [{'101': 'power lines in the sky'}, {'107': 'a tree in t
he distance'}], "('100', 'window on the building')": [], "('101', 'p
ower lines in the sky')": [{'97': 'power lines in the sky'}], "('102
', 'a white wall')": [], "('103', 'a tree in the background')": [],
"('104', 'part of a floor')": [], "('105', 'white pole in the backgr
ound')": [], "('106', 'white paint on the door')": [], "('107', 'a t
ree in the distance')": [], "('108', 'part of a floor')": [], "('109
', 'a green bush')": [], "('110', 'part of a floor')": [], "('111',
'a black and white sign')": [], "('112', 'a green and white house')"
: [], "('113', 'part of a floor')": [], "('114', 'part of a white wa
ll')": [{'108': 'part of a floor'}, {'110': 'part of a floor'}], "('
115', 'white paint on wall')": [], "('116', 'part of a white wall')"
: [], "('117', 'part of a wall')": [], "('118', 'white line on the r
oad')": []}
```

<sup>{&</sup>quot;('0', 'a black car parked on the street')": [{'11': 'license plate on the car'}, {'14': 'the car is blue'}, {'20': 'a silver car'}, {'3 1': 'a black and white sign'}, {'40': 'the car is black'}, {'54': 'the car is black'}, {'57': 'the front of a car'}, {'59': 'the car is blue'}, {'77': 'a car on the road'}, {'80': 'a black car'}, {'83': 'the car is blue'}], "('1', 'a white wall')": [{'4': 'a white door'}, {'12': 'white metal pole'}, {'21': 'green leaves on tree'}, {'22': 'a street light on a pole'}, {'24': 'a building in the background'}, {'26': 'a white and black door'}, {'27': 'green leaves on tree'}, {'28': 'a light on a pole'}, {'29': 'a patch of grass'}, {'30': 'a tree'}

```
e in the background'}, {'33': 'a black door on the wall'}, {'41': 'a
light on the wall'}, {'48': 'a white wall'}, {'51': 'a black pole'},
{'52': 'white door on the building'}, {'64': 'a white door on the bu
ilding'}, {'67': 'a white building'}, {'69': 'a white door on the do
or'}, {'71': 'a door on the side of a train'}, {'74': 'a black metal
pole'}, {'75': 'the sidewalk is made of bricks'}, {'76': 'green gras
s growing on the side of the road'}, {'81': 'a green and white train
'}, {'86': 'a green plant on the wall'}, {'87': 'a pole in the backg
round'}, {'88': 'a white door on the wall'}, {'96': 'a brown wooden
door'}, {'102': 'a white wall'}, {'103': 'a tree in the background'}
, {'105': 'white pole in the background'}, {'106': 'white paint on t
he door'}, {'108': 'part of a floor'}, {'110': 'part of a floor'}, {
'111': 'a black and white sign'}, {'112': 'a green and white house'}
, {'113': 'part of a floor'}, {'114': 'part of a white wall'}, {'115
': 'white paint on wall'}, {'116': 'part of a white wall'}, {'117':
'part of a wall'}], "('2', 'a car parked in a parking lot')": [{'0':
'a black car parked on the street'}, {'6': 'a small green bush'}, {'
8': 'green plant growing on the ground'}, {'9': 'a paved road'}, {'1
1': 'license plate on the car'}, {'13': 'a small tree'}, {'14': 'the
car is blue'}, {'15': 'green tree in front of building'}, {'16': 'pl
ant in front of a window'}, {'17': 'a red and white sign'}, {'19': '
a white car parked on the street'}, {'20': 'a silver car'}, {'23': '
a sidewalk with a lot of tracks'}, {'25': 'leaves on the ground'}, {
'30': 'a tree in the background'}, { '31': 'a black and white sign'},
{'32': 'a person standing on the sidewalk'}, {'34': 'green leaves on
the ground'}, {'37': 'window on a building'}, {'38': 'a person stand
ing on a sidewalk'}, {'39': 'a tree on the sidewalk'}, {'40': 'the c
ar is black'}, {'42': 'a small tree on the sidewalk'}, {'43': 'a tre
e in the background'}, {'44': 'a white building with a red roof'}, {
'45': 'green leaves on the tree'}, {'46': 'a train track'}, {'47': '
a patch of dirt'}, {'50': 'a white car on the road'}, {'53': 'a hous
e in the background'}, {'54': 'the car is black'}, {'56': 'dirt on t
he ground'}, {'57': 'the front of a car'}, {'59': 'the car is blue'}
, {'60': 'the car is black'}, {'61': 'a small door on the building'}
, {'62': 'green tree on the side of the road'}, {'63': 'a green tree
in front of a building'}, {'65': 'a tree on the sidewalk'}, {'66': '
a car parked on the street'}, {'68': 'a window on a building'}, {'71
': 'a door on the side of a train'}, {'72': 'a shadow on the ground'
}, {'76': 'green grass growing on the side of the road'}, {'77': 'a
car on the road'}, {'78': 'a green bush'}, {'79': 'the ground is mad
e of concrete'}, {'80': 'a black car'}, {'81': 'a green and white tr
ain'}, {'82': 'green leaves on the tree'}, {'83': 'the car is blue'}
, {'89': 'a window on a building'}, {'90': 'white car parked on the
street'}, {'91': 'a green tree'}, {'92': 'window on a building'}, {'
93': 'a window on a building'}, {'94': 'green leaves on the tree'},
{'95': 'a tree in the background'}, {'98': 'a green tree in front of
the building'}, {'100': 'window on the building'}, {'104': 'part of
a floor'}, {'106': 'white paint on the door'}, {'109': 'a green bush
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alk'}, {'29': 'a man in a blue shirt'}, {'31': 'a man walking on the
sidewalk'}, {'33': 'a building with a roof'}, {'41': 'red and white
sign'}, {'44': 'a window on a building'}, {'49': 'a window on a buil
ding'}, {'52': 'a white sign on the side of the truck'}, {'54': 'a t
ree on the sidewalk'}, {'59': 'a tree on the sidewalk'}, {'61': 'a w
hite sign on the side of the road'}, {'62': 'window on a building'},
{'66': 'a white truck'}, {'70': 'a blue and white sign'}, {'74': 'a
green tree in the background'}, {'81': 'a window on a building'}, {'
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, {'87': 'a tall green tree'}, {'89': 'a window on a building'}, {'9
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hite bag'}], "('11', 'man wearing orange shirt')": [], "('12', 'a bl
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rt'}, {'46': 'a blue and white sign'}, {'56': 'a blue and white sign'
'}], "('13', 'a woman wearing a blue shirt')": [], "('14', 'a blue a
nd white label')": [], "('15', 'a woman in a blue shirt')": [], "('1
6', 'a sign on the side of the building')": [], "('17', 'a man weari
ng a striped shirt')": [], "('18', 'a white truck')": [{'52': 'a whi
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a tree')": [{'51': 'a tree with a green leaves'}, {'72': 'a tree in
the distance'}, {'97': 'white clouds in blue sky'}], "('22', 'a wood
en door')": [{'28': 'window on the wall'}, {'55': 'a white metal pol
e'}, {'58': 'a white wooden bench'}, {'65': 'a black wall'}], "('23'
, 'a person wearing a blue shirt')": [{'53': 'a pair of blue jeans'}
, {'68': 'a person wearing a black shirt'}], "('24', 'the ground is
```

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wet')": [{'14': 'a blue and white label'}, {'45': 'a pair of blue je
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'}, {'60': 'a white water pipe'}, {'71': 'a white stone wall'}, {'76
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': 'white line on the road'}], "('27', 'a man wearing a red shirt')"
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red letters'}, {'48': 'red and white sign'}], "('34', 'green trees b
ehind the bus')": [{'35': 'a white house with a roof'}, {'51': 'a tr
ee with a green leaves'}, {'72': 'a tree in the distance'}, {'77': '
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'}, {'65': 'a black wall'}, {'73': 'white wall behind the window'},
{'82': 'a white door on the sidewalk'}, {'84': 'a black and white si
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on the wall'}], "('38', 'a white and blue sign')": [], "('39', 'a ma
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: [], "('43', 'black tire on truck')": [], "('44', 'a window on a bu
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and white sign')": [], "('47', 'a building with a lot of windows')":
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}, {'67': 'a blue and white sign'}, {'70': 'a blue and white sign'},
{'74': 'a green tree in the background'}], "('48', 'red and white si
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with a green leaves')": [], "('52', 'a white sign on the side of the
truck')": [], "('53', 'a pair of blue jeans')": [], "('54', 'a tree
on the sidewalk')": [], "('55', 'a white metal pole')": [{'58': 'a w
hite wooden bench'}], "('57', 'a door is open')": [{'60': 'a white w
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'}, {'93': 'white base of a fire hydrant'}, {'102': 'part of a white
wall'}], "('58', 'a white wooden bench')": [], "('59', 'a tree on th
e sidewalk')": [{'90': 'a tall white building'}], "('60', 'a white w
ater pipe')": [], "('61', 'a white sign on the side of the road')":
[], "('62', 'window on a building')": [], "('63', 'the door is white
')": [{'93': 'white base of a fire hydrant'}, {'102': 'part of a whi
te wall'}], "('65', 'a black wall')": [], "('66', 'a white truck')":
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a black shirt')": [], "('69', 'a window on a building')": [], "('70'
, 'a blue and white sign')": [], "('71', 'a white stone wall')": [{'
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"('73', 'white wall behind the window')": [], "('74', 'a green tree
in the background')": [], "('75', 'a building with a roof')": [], "(
'76', 'a pair of white shoes')": [], "('77', 'green leaves on tree')
": [], "('78', 'a tree in the distance')": [], "('79', 'a green tree
in the distance')": [], "('80', 'a black car parked on the street')"
: [], "('81', 'a window on a building')": [], "('82', 'a white door
on the sidewalk')": [], "('83', 'a white sign on a building')": [],
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```

step 2.5: create sentence

```
In [10]:
import os
import json
textsent = []
j = 0
x = 0
i = 0
while x \le 7:
    data = json.load(open('/Users/arin/Desktop/final_yr_project/frame_extract/col
    keylist = list(data.keys())
    while i < len(keylist):</pre>
        cap = list(data[keylist[i]])
          print('#############cpt{}.json'.format(x))
#
          print(cap, len(cap))
        if len(cap) > 1:
            capdict = dict()
            for num, items in enumerate(cap):
                for key in items.keys():
                    capdict[num] = items[key]
            text = set([capdict[key] for key in capdict.keys()])
#
              print(text)
              print('----')
            mystring = ""
            for sen in list(text):
                mystring = mystring + sen + "."
            textsent.insert(j, str(mystring))
            j = j + 1
#
          else:
#
              print("not added")
        i = i + 1
    x = x + 1
print (set(textsent))
json.dump(list(set(textsent)),open('/Users/arin/Desktop/final yr project/frame ex
```

{'a white building.a white wall.a green tree in front of the bus.a w hite metal pole.a blue and white building.a tree on the sidewalk.a w

hite building with a window.a brick wall.a window on a building.a wa ll on the side of a building.window on the building.tree with green leaves.blue and white sign on the side of the road.a white van on th e road.a tree in the background.palm tree in front of building.a whi te stone wall.windows on the building.the truck is white.window on a building.graffiti on the wall.a white truck.a building in the backgr ound.a blue car parked on the street.white truck with a white stripe .a window on the building.a white door on the truck.a white truck on the street.a blue and white sign.a black car parked in the street.wh ite door on truck.', 'a window on a building.white clouds in blue sk y.a tree in the distance.a red and white sign.a sign on the pole.red and white sign.', 'power lines in the sky.a green tree in the backgr ound.a green tree in the distance.green leaves on tree.', 'a white m etal pole.a white wooden bench.window on the wall.a black wall.', 'f ront wheel of a truck.a window on a truck.the side of a truck.the do or of a truck.a white van.a white car in the background.', 'a white building.a roof on the building.a white metal door.a white van.the r oof is gray.a brick building.a brick wall.a window on a building.a w hite truck on the road.window on the building.the side of a truck.a white car in the background.a wheel on a truck.the truck is white.wi ndow on a building.a white truck.a building in the background.the wa ll is made of stone.front wheel of a truck.tire on the road.blue awn ing on building.a window on a truck.the door of a truck.the road is grey.', 'a window on the building.a window on a building.', 'a white car parked in the background.a black car parked on the street.a park ed car.the car is black.the windshield of a car.a car on the road.gr een leaves on the ground.the ground is wet.a brown brick wall.licens e plate on the car.green leaves on the tree.the car is blue.light on the front of a car.a black and white bike.green leaves on tree.white car parked on the street.a car parked on the street.a light blue car .a green bush.a car in the background.the car is silver.', 'a light blue car.the windshield of a car.light on the front of a car.', 'a m an wearing a blue shirt.a man walking on the sidewalk.', 'white car parked on the street.a white car on the road.a car parked on the str eet.green leaves on the tree.a green bush.a green tree in front of t he building.the car is blue.a black and white sign.a house in the ba ckground.', 'part of a road.', 'a green and white train tracks.a man standing on the sidewalk.green leaves on tree.a sidewalk.a black pol e.a brown stone wall.a tree in the background.a small patch of dirt. a red and white sign.people standing on the sidewalk.green leaves on the tree.a sidewalk with a line.', 'white line on the road.the groun d is wet.', 'the car is blue.a black and white bike.the car is silve r.a brown brick wall.', 'a chimney on the roof.a tall building in th e distance.', 'part of a floor.white line on the road.the front of a car.green leaves on the ground.the car is black.dirt on the ground.l icense plate on the car.green plant growing on the ground.the ground is made of concrete.', 'a roof on the building.blue awning on buildi ng.', 'a man wearing a blue shirt.a sign on the side of the bus.', ' a white tent.a blue and white sign.a brown tree in the background.', 'green grass growing on the side of the road.a tree in the backgroun d.', 'a red and white bag.man wearing red shirt.man wearing orange s hirt.', 'a tree with a green leaves.green leaves on tree.a white hou se with a roof.a tree in the distance.', 'a white building.window on the building.', 'a white building.green leaves on tree.a tree in the background.a red and white sign.green leaves on the wall.green leave s on the tree.', 'the truck is white.a truck on the truck.', 'a whit e sign on the sidewalk.a white sign on the side of the road.', 'a ma

n wearing a blue shirt.a brick building.a black tire on the truck.a black car parked on the street.', 'a white stone wall.a white water pipe.the door is white.part of a white wall.white base of a fire hyd rant.', 'a white house with a green roof.a brown pole with a sign.wi ndow on the building.a pole on the side of a building.a green and wh ite sign.a blue and white sign.red and white sign.a street sign on a pole.', 'a white building.a window on a building.window on the build 'part of a road.the sand is brown.', 'a window on a building. green leaves on tree.palm tree in the distance.', 'a bicycle rack on the wall.a window on the building.a window on a building.a green tre e in the background.window on the building.a white wall.a building i n the background.windows on the building.a building with a white roo f.a tree in the background.palm tree on the sidewalk.', 'a blue and white sign.window on the building.', 'a window on a building.', 'par t of a road.the road is grey.', 'a tree with a green leaves.white cl ouds in blue sky.a tree in the distance.', 'a tree in the distance.p ower lines in the sky.', 'a blue car parked on the street.a black ca r parked in the street.', 'a shadow on the ground.part of a floor.pa rt of a wall.part of a white wall.the sidewalk is made of bricks.', 'the license plate on the bus.the back of a black car.a car on the r oad.the front of a car.a window on a car.white car on the road.the c ar is blue.the front of a truck.the windshield of a car.a silver car on the road.', 'a white building.a white truck parked on the street. a brown pole with a sign.a building with a red roof.people walking o n the sidewalk.a green tree.a green tree in front of the bus.a white sign on a pole.a person in a black shirt.a red and white sign.a whit e building with a window.a house in the background.a white house wit h a green roof.a window on a building.window on the building.a blue and white parking meter.a pole on the side of a building.a man walki ng on the sidewalk.a blue sign on the side of the road.white line on the road.a blue sign.palm tree in front of building.a pole with a si gn.a street sign on a pole.man walking on sidewalk.the man is wearin g a black jacket.the truck is white.window on a building.the ground is wet.a white truck.a blue car parked on the street.red and white s ign.a wooden pole.white truck with a white stripe.a building with a blue roof.the tree is green.a car parked on the street.a green and w hite sign.a white door on the truck.white door on truck.a white truc k on the street.a blue and white sign.a sign on the sidewalk.the tru ck is black.a black and white road.the road is grey.a black car park ed in the street.the road is white.', 'a metal fence.a white car par ked on the street.front wheel of a truck.the truck is parked.a metal railing on the building.a metal pole.a green metal fence.red and whi te sign.a red and white sign.a white wall on the side of a building. a white van.blue truck parked on the side of the road.a large tree i n the background.the side of a white truck.a white door on a buildin g.a blue metal fence.', 'window on a building.a window on a building .window on the building.', 'a blue and white label.a woman in a blue shirt.a white sign on the sidewalk.a shadow on the ground.a person w earing a black shirt.a man walking on the sidewalk.white line on the road.a pair of white shoes.a white sign on the side of the road.a ma n wearing a striped shirt.a white and blue sign.a blue and white sig n.a sign on the sidewalk.a man wearing a red shirt.black tire on tru ck.a white truck.the road is grey.a woman wearing a blue shirt.a bla ck car parked on the street.', 'front wheel of a truck.the truck is red.the tire is black.the front wheel of a truck.the truck is white. a black car on the road.the ground is wet.black tire on truck.the sa nd is brown.part of a road.the ground is black.the road is grey.', '

a brick wall.a white bus on the road.blue and white wall.a blue and white building.blue and white sign on the side of the road.a blue an d white sign.a white and black sign.a black truck.', 'a white buildi ng.a window on a building.a white truck on the street.window on a bu ilding.a tree in the background.palm tree in front of building.', 'b lue car parked on the side of the road.a white line on the road.whit e lines on the road.the truck is blue.blue truck parked on the side of the road.the road is white.', 'a silver car.a car on the road.the front of a car.the car is black.license plate on the car.a black car .the car is blue.a black and white sign.', 'green leaves on tree.a p lant in the corner.a green bush.a green tree.window on a building.gr een leaves on the tree.a plant in a pot.', 'a brick building.a white truck.a white sign on the side of the truck.', 'a window on a buildi ng.a tree in the background.', 'a blue and white building.wheel of a truck.a black truck.', 'a small building.a window on a building.', ' a blue roof on a building.window on the building.', 'blue car parked on the street.a green tree.green tree in front of building.a house w ith a roof.the front of a truck.blue car on the road.a silver car on the road.a blue metal fence.red and white sign on pole.a row of park ed cars.a window on a building.the license plate on the bus.blue tru ck parked on the street.a white house with a red roof.the front of a car.the car is black.a tree in the background.a blue truck.blue truc k parked on the side of the road.a white car on the street.the winds hield of a car.a car parked on the side of the road.a white building with a red roof.the truck is parked.a car on the road.windows on the building.a tree in the distance.part of a road.a tree in front of a building.the car is blue.a large tree in the background.green leaves on tree.the back of a black car.white clouds in blue sky.a green bus h.the car is silver.white car on the road.a window on a car.a white building in the background.white lines on the road.green trees in th e background.cars parked on the street.', 'a small tree in the backg round.people walking on the sidewalk.a tall black bench.a red and wh ite sign.', 'white clouds in blue sky.a window on the building.a pow er line of a building.', 'a car in the background.a tree in the back ground.a green tree in front of a building.', 'front tire of a truck .the side of a truck.', 'a white building.part of a floor.a red and white sign.a tree on the sidewalk.a white van.a black car parked on the street.a brick building.a window on a building.a white truck on the road.a blue and white bottle.white truck with green writing.a tr ee in the background.palm tree in front of building.a black truck.wh ite truck parked in front of a building.a sign on a pole.a black tir e on the truck.a wheel on a truck.a man wearing a blue shirt.a sign on the side of the road.a white and blue sign.the truck is white.win dow on a building.the ground is wet.a white truck.a brown tree in th e background.part of a road.a building in the background.red and whi te sign.a white van parked on the street.a pole on the sidewalk.a wh ite truck on the street.a blue and white sign.a sign on the sidewalk .black tire on truck.white van on the street.the road is grey.white lines on the road.a white door on a building.', 'blue truck parked o n the street.blue truck parked on the side of the road.a blue metal fence.blue car on the road.', 'a pair of blue jeans.a person wearing a black shirt.', 'a tree in the distance.a tree with green leaves.th e flowers are pink.a pink flower.', 'part of a floor.a white wall.le aves on the ground.a green tree.the door is white.a green tree in th e distance.a red and white sign.a white car parked in the background .green leaves on the wall.a black car parked on the street.a parked car.a brick wall.a green and white train tracks.blue car parked on t

he side of the road.a window on a building.a plant in the corner.a w hite house with a red roof.the car is black.door on the side of the building.a brown stone wall.a tree in the background.blue car parked on street.a small green bush.the windshield of a car.a sidewalk with a line.a white wooden fence.white door on the building.a car on the road.a white door.green leaves on the ground.a tree in the distance. window on a building.buildings in the background.a brown brick wall. license plate on the car.a man standing on the sidewalk.people stand ing on the sidewalk.the car is blue.green leaves on the tree.light o n the front of a car.part of a door.a black and white bike.green lea ves on tree.a green tree in the background.white car parked on the s treet.a car parked on the street.a light blue car.a green bush.a bla ck pole.white door on the wall.the car is parked.a car in the backgr ound.the car is silver.a small patch of dirt.white car on road.white house with red roof.the door is open.a plant in a pot.a green tree i n front of a building.a tall building in the distance.', 'a green an d white sign.man walking on sidewalk.', 'a brick wall.white car park ed on the street.a green tree in the background.a window on a buildi ng.a white house with a red roof.a tree in the distance.window on a building.a tree in the background.a green tree in front of a buildin g.', 'a white building with a window.window on a building.a white tr uck on the street.a green tree in front of the bus.', 'a white build ing.front tire of a truck.a green street sign.a building with window s.a green tree.blue truck with a red stripe.a tire on a truck.a roof on the building.a white van.the roof is gray.a blue trash can.a chim ney on the roof.a brick building.a brick wall.blue car parked on the side of the road.a window on a building.a white truck on the road.wi ndow on the building.a truck on the road.the side of a truck.the tru ck is blue.blue truck parked on the side of the road.white truck par ked on the street.a white car in the background.white letters on sid e of truck.a white sign on the sidewalk.a sign on a pole.the truck i s white.window on a building.a white truck.the wall is made of stone .red and white sign.front wheel of a truck.black wheels on truck.whi te truck with blue writing.a window on the building.a green and whit e sign.a green bush.a truck is parked.a blue and white sign.the truc k is black.a white door on a building.', 'a white building.a white d oor on the wall.white door on the building.a black metal pole.a blac k door on the wall.a black pole.a light on a pole.', 'white clouds i n blue sky.a power line of a building.', 'white letters on side of t ruck.black wheels on truck.front tire of a truck.white truck with bl ue writing.front wheel of a truck.a truck on the road.a truck is par ked.the side of a truck.the truck is white.a white truck.the truck i s black.a white van.', 'a white sign on the sidewalk.front wheel of a truck.front tire of a truck.a green and white sign.blue truck with a red stripe.the truck is blue.a white van.a blue trash can.a white door on a building.', 'a blue and white label.a white stone wall.a s hadow on the ground.a white wooden bench.a white water pipe.white li ne on the road.a pair of white shoes.a pair of blue jeans.', 'the fr ont of a truck.the car is black.', 'window on a building.a window on a building.', 'a small puddle of water.the water is green.', 'black wheels on truck.a white truck.the truck is black.', 'red and white s ign.window on the building.', 'a white building.a blue and white bui lding.the flowers are pink.a sign on the side of the bus.a red and w hite sign.a tree on the sidewalk.a white house with a green roof.a w hite tent.a brick building.a window on a building.a tree with green leaves.a sign on the pole.a sign on a pole.a man wearing a blue shir t.a yellow and blue umbrella.a tree in the distance.window on a buil

ding.a brown tree in the background.red and white sign.green leaves on tree.trees in the background.white clouds in blue sky.a pole on t he sidewalk.a blue and white sign.a pink flower.a plant in a pot.', 'green leaves on tree.a green tree.', 'a window on a building.window on the building.', 'a brick building.white letters on side of truck. a white sign on the sidewalk.a window on the building.a green street sign.window on the building.a truck on the road.a green bush.a green tree.the side of a truck.a building with a roof.a white door on a bu ilding.red and white sign.a chimney on the roof.a tall building in t he distance.', 'a white building.a blue and white building.the sand is brown.a black car on the road.the building is white.a white door on the building.a white van.a window on a building.window on the bui lding.a bridge over the water.the tire is black.a black and white wa ll.the front wheel of a truck.the side of a truck.the truck is blue. a building with a window.a blue roof on a building.the ground is bla ck.a black truck.a truck with a blue and white sign.the truck is par ked.window on a car.a wheel on a truck.a white metal fence.a small b uilding.the truck is red.the wheel of a truck.the truck is white.win dow on a building.a truck with a white stripe.a truck parked in the street.a white truck.the ground is wet.a building in the background. part of a road.the building is made of brick.wheel of a truck.front wheel of a truck.blue and white boat on the back of the truck.a truc k on the truck.a truck is parked.a truck on the side of a truck.a ro of of a building.a blue and white boat.black tire on truck.a white b uilding in the background.blue and white building.the road is grey.' , 'a brick building.window on a building.a brown tree in the backgro und.a tree on the sidewalk.', 'a blue and white label.white line on the road.a white and blue sign.', 'green leaves on the tree.a person standing on a sidewalk.a small tree on the sidewalk.a green bush.', 'a metal fence.a green metal fence.', 'part of a floor.a sidewalk.th e water is green.a small puddle of water.a small patch of water.', ' a man wearing a blue shirt.man wearing a red shirt.a woman wearing a blue shirt.', 'a window on a building.a white building with a red ro of.window on a building.green tree on the side of the road.a house w ith a roof.', 'part of a beach.part of a road.a blue and white boat. the sand is brown.a small patch of water.', 'a tree in the distance. green leaves on tree.', 'a brick wall.blue and white sign on the sid e of the road.', 'a sidewalk with a lot of tracks.part of a floor.a silver car.leaves on the ground.a green tree.green tree in front of building.a small tree on the sidewalk.a green and white train.green plant growing on the ground.a tree on the sidewalk.a red and white s ign.a train track.the ground is made of concrete.a black car parked on the street.a house in the background.a window on a building.plant in front of a window.window on the building.white line on the road.a person standing on the sidewalk.the front of a car.the car is black. a tree in the background.a small green bush.a person standing on a s idewalk.a black and white sign.a shadow on the ground.a white buildi ng with a red roof.a small door on the building.a paved road.a patch of dirt.a car on the road.white paint on the door.green leaves on th e ground.window on a building.green tree on the side of the road.lic ense plate on the car.green grass growing on the side of the road.a door on the side of a train.a green tree in front of the building.th e car is blue.green leaves on the tree.a white car parked on the str eet.white car parked on the street.a white car on the road.a car par ked on the street.a green bush.a green and white house.a small tree. dirt on the ground.a black car.a green tree in front of a building.' , 'blue truck parked on the side of the road.the side of a white tru

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ck.a red and white sign.', 'part of a road.the sand is brown.part of
a beach.', 'a brick wall.a white building.a window on a building.win
dow on the building.a truck on the truck.a black and white wall.a tr
uck on the side of a truck.a white door on the building.', 'a metal
fence.front wheel of a truck.a white car parked on the street.a wind
ow on a building.a metal pole.white van parked on the street.a white
van.a white sign on the road.a white building in the background.a wh
ite truck.a white door on the building.a green tree in front of the
building.a sign on the side of the building.a white wall on the side
of a building green leaves on the tree red and white sign the road i
s white.the side of a white truck.a white door on a building.front t
ire of truck.', 'a white building.part of a floor.a white wall.a gre
en and white train.a white door on the building.a light on the wall.
white pole in the background. white paint on wall.a white door on the
wall.a white and black door.a black metal pole.part of a white wall.
a tree in the background.a green plant on the wall.a black and white
sign.the sidewalk is made of bricks.white door on the building.white
paint on the door.a white door.green grass growing on the side of th
e road.a door on the side of a train.a building in the background.a
light on a pole.white metal pole.green leaves on tree.a black door o
n the wall.a green and white house.a black pole.a patch of grass.par
t of a wall.a street light on a pole.a brown wooden door.a white doo
r on the door.a pole in the background.', 'part of a floor.white doo
r on the building.', 'plant in front of a window.a green bush.window
on a building.a tree in the background.a green tree in front of the
building.green plant growing on the ground.green leaves on the tree.
', 'white wall behind the toilet.a white door.a white door on the wa
11.', 'a brown wooden door.green leaves on tree.a green and white ho
use.a green plant on the wall.', 'a white van.a white truck.the side
of a white truck.a sign on the side of the building.', 'a man wearin
g a red shirt.a blue and white sign.a sign on the side of the buildi
ng.', 'a blue and white sign.a green tree in the background.a white
house with a roof.', 'blue car parked on the street.a car on the roa
d.blue truck parked on the street.white lines on the road.a tree in
the background.the windshield of a car.the front of a truck.blue car
on the road.a car parked on the side of the road.a silver car on the
road.', 'a white building.a window on a building.window on a buildin
g.a tree on the sidewalk.palm tree in front of building.', 'a white
door on the building.a truck on the truck.', 'a white building.a gre
en tree in front of the bus.a white truck on the street.the truck is
white.a white truck.a blue car parked on the street.a black car park
ed in the street.the road is white.', 'a blue sign on the side of th
e road.the tree is green.a blue sign.', 'part of a white wall.white
pole in the background.white paint on wall.a green plant on the wall
.', 'green leaves on tree.palm tree in the background.', 'a man stan
ding on the sidewalk.green leaves on tree.a plant in the corner.a gr
een bush.a green tree.window on a building.a tree in the background.
a green tree in the distance.palm tree in the distance.green leaves
on the tree.', 'a bicycle rack on the wall.a white bus on the road.a
green tree in the background.a sign on the wall.a car parked on the
street.a white wall.graffiti on the wall.a blue and white sign.a tre
e in the background.white lines on road.a white and black sign.palm
tree on the sidewalk.white paint on wall.', 'a black tire on the tru
ck.a wheel on a truck.the truck is white.white truck with green writ
ing.black tire on truck.a white truck.a white van.white truck parked
in front of a building.', 'the door is white.white door on the wall.
door on the side of the building.the door is open.part of a door.',
```

'a white sign with red letters.red and white sign.', 'a window on a building.a small door on the building.power lines in the sky.green t ree in front of building.a tree in the distance.a green tree in fron t of a building.a house in the background.', 'a tree in the backgrou nd.a red and white sign.', 'part of a road.part of a beach.', 'a bri ck building.white letters on side of truck.a brick wall.a window on the building.window on the building.a green tree.the wall is made of stone.a white door on a building.', 'palm tree in front of building. red and white sign.a window on a building.', 'a tree with a green le aves.a sign on a building.a window on a building.white clouds in blu e sky.a tree in the distance.a white sign with red letters.a tree in the background.red and white sign.', 'a brick building.a white build ing.a brick wall.a window on a building.a window on the building.win dow on the building.a building with windows.a green bush.a power lin e of wires.window on a building.a roof on the building.a building wi th a roof.a building in the background.the roof is gray.a chimney on the roof.a tall building in the distance.', 'a tree in the backgroun d.a white car on the street.a white building with a red roof.blue ca r on the road.', 'white clouds in blue sky.', 'a white building.man walking on sidewalk.a green tree in front of the bus.a blue and whit e sign.a sign on the sidewalk.a blue car parked on the street.a blac k car parked in the street.', 'blue car parked on the street.people walking on the sidewalk.a green tree.green tree in front of building .a red and white sign.a house with a roof.a silver car on the road.a window on a building.a white house with a red roof.a tree in the bac kground.a white car on the street.the windshield of a car.a car park ed on the side of the road.a white building with a red roof.a car on the road.windows on the building.a tree in the distance.a tree in fr ont of a building.the car is blue.the back of a black car.a green bu sh.a tall black bench.white car on the road.a window on a car.white lines on the road.', 'a brick wall.a white stone wall.a window on a building.a window on the building.a wall on the side of a building.a white wall.a blue and white building.a blue and white boat.a blue an d white sign.blue and white sign on the side of the road.', 'the roa d is white.a black car parked in the street.the ground is wet.white line on the road.', 'white clouds in blue sky.green leaves on tree.' , 'a car on the road.the car is black.license plate on the car.', 'a white building.window on the building.a white door on the truck.a gr een tree in front of the bus.window on a building.a blue and white s ign.a white truck on the street.a white building with a window.white door on truck.', 'green leaves on the tree.a car in the background.w hite car parked on the street.a green bush.', 'the front wheel of a truck.window on a car.the side of a truck.', 'wheel of a truck.front wheel of a truck.blue and white boat on the back of the truck.a whee l on a truck.a truck on the truck.the truck is red.the front wheel o f a truck.the side of a truck.a truck on the side of a truck.the tru ck is blue.the wheel of a truck.the truck is white.a white door on t he building.a black truck.', 'a green street sign.a sign on a pole.a tall pole with a sign.a tall green tree.a blue and white sign.a chim ney on the roof.a pole with a sign.a tall building in the distance.' , 'a blue trash can.blue truck with a red stripe.', 'part of a white wall.white base of a fire hydrant.', 'green leaves on tree.a green a nd white house.', 'a car on the road.the windshield of a car.', 'pal m tree in the distance.a metal fence.green leaves on tree.a window o n a building.green leaves on the tree.white clouds in blue sky.a whi te house with a red roof.a green tree.a green metal fence.a white bu ilding in the background.a tree in the distance.a tree with green le

aves.window on a building.a metal railing.a green tree in front of t he building.a yellow and blue sign.a building with a roof.a house wi th a roof.red and white sign.', 'a white building.part of a window.a stone wall.a sign on the wall.a white wall.a white door on the build ing.white paint on wall.a brick wall.a window on a building.window o n the building.a black and white wall.the truck is blue.a bicycle ra ck on the wall.a small window on a building.graffiti on the wall.win dow on a building.the truck is white.the window is brown.blue and wh ite boat on the back of the truck.a truck on the truck.a truck on th e side of a truck.blue and white building.', 'part of a floor.a man wearing a blue jeans.a blue and white bottle.part of a road.a blue a nd white sign.a pair of blue jeans.', 'people walking on the sidewal k.a green tree.man wearing red shirt.a building with a roof.a green tree in the distance.a person wearing a blue shirt.a woman in a blue shirt.green trees behind the bus.a blue and white bus.a person weari ng a black shirt.a man walking on the sidewalk.a man wearing a strip ed shirt.a tree with green leaves.a sign on the side of the building .red flowers on the ground.a man holding a red umbrella.a woman wear ing a blue shirt.a red and white bag.a man wearing a yellow shirt.a white door on the sidewalk.a pair of white shoes.a tree in the dista nce.a man in a blue shirt.man wearing orange shirt.white base of a f ire hydrant.a tree with a green leaves.green leaves on tree.a green tree in the background.white clouds in blue sky.a white house with a roof.a man wearing a red shirt.a blue and white sign.a building with a lot of windows.a pair of blue jeans.a tall white building.', 'a la rge green tree.a tree in the distance.a blue and white sign.a green tree in the distance.a pole with a sign.', 'a truck on the road.a wi ndow on the building.a white truck.window on the building.', 'green leaves on the tree.red and white sign.a green tree in front of the b uilding.a window on a building.', 'a truck with a blue and white sig n.a white truck.', 'a patch of dirt.part of a road.the ground is wet .the car is black.', 'a brick building.a window on a building.a gree n tree in the background.window on the building.a man walking on the sidewalk.a tall green tree.a white sign on the side of the truck.a w hite sign on the side of the road.a white sign on a building.a man i n a blue shirt.window on a building.a blue and white sign.a white tr uck.a tree in the background.a building with a roof.a tree on the si dewalk.a white building in the background.red and white sign.a tall white building.a black car parked on the street.', 'part of a floor. ', 'window on a building.a window on a building.a yellow and blue si gn.a metal railing.', 'a white sign on the sidewalk.a green and whit e sign.red and white sign.', 'a white metal fence.a blue and white b oat.a truck with a white stripe.black tire on truck.a white truck.th e ground is black.a truck with a blue and white sign.', 'a white bui lding.a power line of a building.window on the building.a roof of a building.window on a building.a building with a window.the building is white.a flag on the building.a blue roof on a building.a building in the background.the building is made of brick.a flag on a pole.', 'a window on a building.a green tree in the background.a white house with a red roof.window on a building.a tree in the background.a gree n tree in the distance.', 'a brick wall.', 'a green tree in the back ground.a tall white building.', 'a tree in the distance.a blue wall on the side of a building.', 'a shadow on the ground.plant in front of a window.window on the building.green leaves on the tree.a person standing on the sidewalk.leaves on the ground.a green bush.a green t ree.window on a building.a small tree.a small tree on the sidewalk.a tree in the background.green grass growing on the side of the road.a

he building.a person standing on a sidewalk.palm tree in the backgro und.', 'windows on the building.a window on a building.a white house with a red roof.', 'a brick building.a sign on the side of the road. a blue and white sign.a sign on the sidewalk.', 'front wheel of a tr uck.black wheels on truck.tire on the road.a white truck on the road .a wheel on a truck.a white truck.the road is grey.', 'part of a flo or.a blue and white bottle.a white and blue sign.part of a road.a bl ue and white sign.the road is grey.white lines on the road.', 'a whi te wall.a white door on the truck.the truck is white.a blue and whit e sign.a white van on the road.', 'part of a floor.the water is gree n.', 'a white and black door.a green and white house.a tree in the b ackground.a green plant on the wall.a brown wooden door.', 'a brick wall.blue car parked on the side of the road.a green tree in the bac kground.a tree in the distance.a brown brick wall.blue car parked on street.', 'a white van.a white van parked on the street.', 'the road is grey.white lines on the road.black tire on truck.', 'windows on t he building.a window on the building.a window on a building.', 'a br ick building.man wearing a red shirt.a black tire on the truck.a car parked on the street.a man wearing a blue shirt.a yellow and blue um brella.a man walking on the sidewalk.a sign on the side of the road. a wheel on a truck.a red and white striped shirt.a man wearing a red shirt.a sign on the sidewalk.a sign on the side of the bus.a red and white sign.a black car parked on the street.', 'a blue and white par king meter.a sign on the sidewalk.a red and white sign.', 'a blue an d white boat.the sand is brown.', 'part of a wall.a white door on th e door.white paint on the door.a white and black door.', 'a brick bu ilding.a window on the building.window on the building.', 'the licen se plate on the bus.the road is white.green leaves on the ground.the front of a car.the car is black.a patch of grass.part of a road.fron t tire of truck.the car is silver.a small tree in the background.the road is grey.the front of a truck.the road is black.a road.', 'white flowers in the background.a white door on the sidewalk.white door on the wall.a black wall.window on the wall.man wearing red shirt.man w earing orange shirt.red flowers on the ground.a black and white sign .white wall behind the window.'}

red and white sign.a tree on the sidewalk.a green tree in front of t

## step 3: summarization

## In [14]:

```
from collections import Counter
import nltk
import re
import json
def commonprefix(m):
    if not m:
        return ''
#
      testing
#
      for line in m:
#
          print line, len(line)
    s1 = min(m)
#
      print s1
    s2 = max(m)
#
      print s2
    for i c in enumerate(c1).
```

```
if c != s2[i]:
            return s1[:i]
    return s1
def makesent(text):
    sents = list(filter(lambda x: x!= '', [line.strip() for line in text.split('.
#
      print (sents)
      print ('----')
#
    tags, target_sents_NN, target_sents_VBG, req_lines = list(), list(), list(),
    dummylines, objects = list(), list()
    lookup, target = dict(), dict()
    for line in sents:
        parse = nltk.word tokenize(line)
        tags.append(nltk.pos tag(parse))
   counts = Counter([item for line in tags for item in line])
#
      print tags
   targetVBG = None
    targetNN = None
    for item in counts.most common():
        if item[0][1] == 'NN':
            targetNN = item[0][0]
            break
    for item in counts.most common() :
        if item[0][1] == 'DT':
            targetDT = item[0][0]
            break
    for key, value in counts.items():
        lookup.setdefault(key[1],[]).append(key[0])
    for line in tags:
        for word in line:
            if word[0] == targetNN:
                target sents NN.append(line)
#
                  print line
#
                  print '----'
#
      targetVBG = str(0)
#
      targetNN = str(0)
    for item in Counter([item for line in target_sents_NN for item in line]).most
        if item[0][1] == 'VBG':
            targetVBG = str(item[0][0])
            break
    if targetVBG is None:
#
          print("no targetVBG")
        return;
    elif targetNN is None:
#
          print("no targetNN")
        return;
   else:
        for line in target_sents_NN:
            if (targetNN, 'NN') in line and (targetVBG, 'VBG') in line:
                target_sents_VBG.append(line)
```

```
if 'VBZ' not in lookup:
#
          print("cannot display")
        pass
    else:
        VBZ list = lookup['VBZ']
#
          print VBZ_list
#
      if len(VBZ list) == 0:
#
          print "Cannot display"
#
          return
#
      else:
        target_prefix = [' '.join([targetNN, targetVBG])]
        target prefix.append(' '.join([targetDT, targetNN, targetVBG]))
          print target prefix
        for vbz in VBZ list:
            target prefix.append(' '.join([targetDT, targetNN, vbz, targetVBG]))
#
              print target prefix
        for line in sents:
            for tp in target prefix:
                if line.startswith(tp):
                    req lines.append(line)
#
                      print reg lines
        for line in req lines:
            dummylines.append(line.replace(targetDT + ' ', ''))
#
          print dummylines
        prefix = commonprefix(dummylines)
        for line in dummylines:
            line = re.sub(prefix, '',line)
            if 'and ' in line:
                diff = list()
                diff = line.split(' and ')
                for d in diff:
                    objects.append(d)
                    break
            else:
                objects.append(line)
#
              print objects
        obj = list(set(objects))
#
          print obj
        obj.sort()
        obj.sort(key=len)
          print(obj)
#
#
          print('----')
        req objects = []
          req_objects.append(str(filter(lambda x: [x for i in obj if x in i and x
        req_objects = list(filter(lambda x: [x for i in obj if x in i and x != i]
#
          print(len(req objects))
        if len(req objects) > 0:
            final_text = ' '.join([targetDT, prefix]) + ', '.join(req_objects[:-1]
            mysummary.append(final text.capitalize())
```

```
mysummary = []
mytext = json.load(open('/Users/arin/Desktop/final_yr_project/frame_extract/c

# print(mytext[0])
for item in mytext:
    makesent(item)
print(str(mysummary))

# text = raw_input("Enter your text:")
# print "Your text:" + text

# text = "the man has glasses. a man wearing a white shirt. a white door. a p
# makesent(text)
```

['A metal railing on the building and ']