

Assignment 1

1.1 Every word starts with 'a'

Code

```
if(re.search("^a",w)):
```

```
D:\NLP>c:/python38/python.exe d:/NLP/week2-assignment1.py
```

[illegible]

1.2 Every word ends with 'ing'

Code	if(re.search(".*ing\$",w)):
D:\WP\py\python38\python.exe d:\WP\week2-assignment\typ	['According', 'Anything', 'Assuming', 'Awaiting', 'Bailing', 'Battering', 'Behring', 'Being', 'Blinding', 'Bobbing', 'Bringing', 'Capturing', 'Charing', 'Charting', 'Clearing', 'Clin ing', 'Closing', 'Coming', 'Comparing', 'Concerning', 'Considering', 'Corresponding', 'Crossing', 'Cruising', 'Crying', 'Cutting', 'Dashing', 'Descending', 'Despairi ng', 'Ding', 'Dinting', 'Diving', 'Drawing', 'Drinking', 'Dropping', 'During', 'Dying', 'Entering', 'Espying', 'Excepting', 'Exploring', 'Extending', 'Fanning', 'Fasting', 'Feari ng', 'Finding', 'Floating', 'Flying', 'Folding', 'Forming', 'Gaining', 'Gamming', 'Giving', 'Glancing', 'Gliding', 'Going', 'Granting', 'Halting', 'Handling', 'Having', 'Heading', 'Hearing', 'Harkening', 'Hiding', 'Hoisting', 'Holding', 'Improving', 'Inserting', 'Interweaving', 'Issuing', 'Keeping', 'King', 'Leading', 'Leaning', 'Learning', 'Levelling', 'Lighting', 'Lightning', 'Looking', 'Lowering', 'Lying', 'Making', 'Marking', 'Meddling', 'Mingling', 'Morning', 'Moving', 'Nothing', 'Overhearing', 'Owing', 'Panting', 'Peering', 'Penetrating', 'Pitchpoling', 'Placing', 'Preserving', 'Pressing', 'Projecting', 'Pudding', 'Pulling', 'Pushing', 'Quitting', 'Raising', 'Receiving', 'Reckoning', 'Regarding', 'Remembering', 'Removing', 'Retreating', 'Returning', 'Rising', 'Running', 'Sailing', 'Scorning', 'Securing', 'Seeing', 'Seizing', 'Setting', 'Shaking', 'Shifting', 'Shooting', 'Singing', 'Sleeping', 'Snatching', 'Something', 'Sounding', 'Spring', 'Squaring', 'Stammering', 'Standing', 'Starting', 'Stealing', 'Steering', 'Stepping', 'Sticking', 'Striking', 'Supposing', 'Swimming', 'Swing', 'Taking', 'Thinking', 'Threading', 'Throttling', 'Throwing', 'Thrusting', 'Thundering', 'Touching', 'Turning', 'Tying', 'Walking', 'Wapping', 'Wa tching', 'Welding', 'Whaling', 'Winding', 'Wrapping', 'abating', 'abhorring', 'abiding', 'abounding', 'absorbing', 'accelerating', 'accompanying', 'accomplishing', 'according', 'a ccounting', 'accumulating', 'acknowledging', 'adding', 'addressing', 'adhering', 'adjoining', 'adjusting', 'administering', 'admitting', 'admonishing', 'adopting', 'adoring', 'a dorning', 'advancing', 'affecting', 'affording', 'agonizing', 'allying', 'allowing', 'alluding', 'alluring', 'altering', 'alternating', 'amazing', 'amputating', 'amusing', 'anim ating', 'annihilating', 'announcing', 'anoointing', 'anything', 'apalling', 'appearing', 'applying', 'approaching', 'approving', 'arboring', 'arching', 'arguing', 'arising', 'arr anging', 'arriving', 'ascending', 'ascertaining', 'aspiring', 'assailing', 'assisting', 'assuaging', 'assuming', 'assuring', 'astonishing', 'attaching', 'attacking', 'attaining', 'attending', 'awaiting', 'babbling', 'backing', 'bagging', 'balancing', 'bailing', 'banding', 'bantering', 'bartering', 'bathing', 'battering', 'bawling', 'beaching', 'bearing', 'beating', 'beckoning', 'becoming', 'bedeviling', 'befriending', 'begging', 'beginning', 'beholding', 'being', 'belaying', 'believing', 'belonging', 'bending', 'bes eeching', 'bespattering', 'bespeaking', 'bestirring', 'bethinking', 'bewildering', 'bewitching', 'bidding', 'binding', 'biting', 'blackberrying', 'blackling', 'blan keting', 'blasting', 'blazing', 'bleaching', 'bleeding', 'blending', 'blessing', 'blinding', 'blotting', 'blowing', 'blubbering', 'blundering', 'boarding', 'boasting', 'boiling', 'bolstering', 'bolting', 'booming', 'booting', 'bordering', 'borrowing', 'bottling', 'bouncing', 'bounding', 'bowing', 'bowling', 'bowstring', 'boxing', 'bracing', 'braiding', 'braining', 'branding', 'breaching', 'breakfasting', 'breaking', 'breathing', 'breaching', 'breeding', 'breezing', 'brimming', 'bring', 'bringing', 'bristling', 'broiling', 'brood ing', 'browsing', 'brushing', 'bubbling', 'buckling', 'budding', 'building', 'bumping', 'bundling', 'bunting', 'burning', 'bursting', 'burying', 'busing', 'butchering', 'buttoni ng', 'cajoling', 'caking', 'calculating', 'calling', 'canting', 'capering', 'capping', 'capsizing', 'capturing', 'careening', 'carking', 'carrying', 'carving', 'cascading', 'cast ing', 'catching', 'caulking', 'causing', 'ceasing', 'ceiling', 'chalking', 'chancing', 'changing', 'characterizing', 'charging', 'chasing', 'chattering', 'chatting', 'cheating', 'cheering', 'cherishing', 'cherrying', 'chewing', 'chipping', 'chopping', 'churning', 'circling', 'circulating', 'circumnavigating', 'circumventing', 'clamping', 'clan king', 'clapping', 'clashing', 'clattering', 'cleansing', 'clearing', 'cleaving', 'cleaving', 'clenching', 'climbing', 'clinging', 'clinking', 'closing', 'clothing', 'clotting', 'cl ustering', 'clutching', 'coalescing', 'coasting', 'coating', 'cobbling', 'coercing', 'coiling', 'collaring', 'collecting', 'colouring', 'combing', 'combining', 'comforting', 'com ing', 'commanding', 'commenting', 'committing', 'communicating', 'communing', 'comparing', 'completing', 'composing', 'comprehending', 'comprising', 'concentrating', 'concerning', 'conciliating', 'concluding', 'concurring', 'condemning', 'condescending', 'conducting', 'confiding', 'confining', 'conflicting', 'confounding', 'connecting', 'conquering', 'co nsecrating', 'considering', 'consisting', 'constituting', 'consulting', 'consuming', 'containing', 'contemplating', 'contending', 'contenting', 'continuing', 'contracting', 'cont rasting', 'controlling', 'convolescing', 'conveying', 'cooking', 'cooling', 'copying', 'corresponding', 'counteracting', 'countersinking', 'counting', 'courting', 'covering', 'cov zening', 'cracking', 'crashing', 'crawling', 'creaking', 'creating', 'creeping', 'cringing', 'crossing', 'crouching', 'crowing', 'crowing', 'cruising', 'crunching', 'crushing', 'crying', 'cudgelling', 'cunning', 'curdling', 'curing', 'curling', 'cursing', 'curvetting', 'curving', 'cutting', 'cymballing', 'cymbaling', 'dancing', 'dangling', 'da ring', 'darkling', 'daring', 'dashing', 'dawning', 'dazzling', 'deadening', 'deadreckoning', 'deafening', 'decaning', 'decapitating', 'decaying', 'declaring', 'declining', 'de dicating', 'deepening', 'deliberating', 'demanding', 'denominating', 'denying', 'departing', 'depending', 'depicting', 'deprecating', 'deriding', 'descending', 'describing', 'des crying', 'deserving', 'desiring', 'despairing', 'destroying', 'determining', 'developing', 'devoting', 'devouring', 'dictating', 'digesting', 'digging', 'dilating', 'ding', 'dini ng', 'dinning', 'dipping', 'directing', 'disappearing', 'discharging', 'discouraging', 'discovering', 'discriminating', 'disentangling', 'disheartening', 'disinfecting', 'dissemi ng', 'disembering', 'disobeying', 'disposing', 'disputing', 'dissembling', 'distinguishing', 'distrusting', 'disturbing', 'diverting', 'dividing', 'diving', 'dodging', 'doggng', 'doing', 'domineering', 'donning', 'doubbling', 'doubting', 'dragging', 'drawing', 'dreaming', 'drenching', 'dressing', 'drifting', 'drinking', 'dripping', 'driving', 'drooping', 'dropping', 'drowning', 'drugging', 'ducking', 'dumpling', 'during', 'dusting', 'dwelling', 'dying', 'eating', 'edding', 'edging', 'elevating', 'elucidating', 'eluding', 'emba lming', 'embarking', 'embattling', 'embalozoning', 'embracing', 'emerging', 'emptying', 'encasing', 'enchanting', 'encircling', 'encountering', 'enduring', 'engaging', 'engenderin g', 'engineering', 'engraving', 'engrossing', 'enhancing', 'enjoining', 'enjoying', 'enkindling', 'enlightening', 'enlistering', 'entangling', 'entertaining', 'entering', 'enticing', 'enveloping', 'erecting', 'erring', 'escaping', 'essaying', 'establishing', 'evening', 'everlasting', 'everything', 'evincing', 'exaggerating', 'examining', 'exaspe rating', 'excavating', 'exceeding', 'excepting', 'exchanging', 'exciting', 'exclaiming', 'excluding', 'exhaling', 'exhausting', 'exhibiting', 'exhilarating', 'existing', 'expandi ng', 'expending', 'expiring', 'exploding', 'exposing', 'expressing', 'extending', 'extinguishing', 'extorting', 'extracting', 'exulting', 'eyeing', 'facilitating', 'facing', 'fad ing', 'fainting', 'falling', 'faltering', 'famishing', 'fancying', 'fanning', 'farthing', 'fastening', 'fasting', 'fattening', 'favouring', 'feasting', 'feathering', 'featuring', 'feeding', 'feeling', 'fencing', 'ferreting', 'festooning', 'fetching', 'fighting', 'filling', 'filliping', 'finding', 'fixing', 'fixing', 'flaming', 'fl anking', 'flashing', 'flattening', 'flattering', 'fleeing', 'flickering', 'filing', 'flinging', 'flitting', 'floating', 'flogging', 'floundering', 'flourishing', 'flowering', 'fl owing', 'fluking', 'fluttering', 'flying', 'foaming', 'fobbing', 'folding', 'following', 'fooling', 'forbearing', 'forbidding', 'foreboding', 'foregoing', 'forerunning', 'foresee ing', 'foreshadowing', 'forgetting', 'forging', 'forking', 'forming', 'forswearing', 'forthing', 'foundering', 'founding', 'freebooting', 'freezing', 'freshening', 'fringing', 'fronting', 'fumbling', 'furnishing', 'fuzzing', 'gaining', 'gaming', 'gaping', 'gardening', 'gaspng', 'gathering', 'gazing', 'generalizing', 'getting', 'gibbering', 'girdling', 'giving', 'glancing', 'glaring', 'gleaming', 'gliding', 'glimmering', 'glistering', 'glittering', 'gloating', 'glorying', 'glowing', 'gnashing', 'gnawing', 'goggling', 'going', 'goring', 'granting', 'grappling', 'grasping', 'grating', 'grazing', 'grinding', 'grinning', 'gripping', 'groping', 'growing', 'guarding', 'gulping', 'gurgling', 'gushing', 'hack ing', 'hailling', 'hauling', 'halving', 'hammering', 'hampering', 'handing', 'hanging', 'hanging', 'happening', 'harboring', 'harpooning', 'harpspring', 'harvesting', 'hastening', 'hauling', 'haunting', 'having', 'heading', 'heating', 'heaving', 'heeding', 'helping', 'heralding', 'heralding', 'hiding', 'hinting', 'hissing', 'hitching', 'hitting', 'hoisting', 'hitting', 'hoisting', 'holding', 'hollowing', 'honoring', 'honouring', 'hooking', 'hoping', 'horrifying', 'housekeeping', 'hovering', 'howling', 'hugging', 'humming', 'hunting', 'hurling', 'hurrying', 'hurling', 'igniting', 'ignoring', 'illuminating', 'imagining', 'imbibing', 'impairing', 'impaling', 'impacting', 'impeding', 'impelling', 'i mporting', 'imposing', 'improving', 'inclining', 'including', 'incommoding', 'increasing', 'inculcating', 'individualizing', 'inducing', 'indulging', 'infected', 'infesting', 'infi ng', 'inhaling', 'inking', 'inlaying', 'inquiring', 'insinuating', 'inspecting', 'insulting', 'intending', 'intensifying', 'interblending', 'interesting', 'interfer ing', 'interflowing', 'interfusing', 'interlacing', 'interluding', 'intermeddling', 'intermitting', 'interpreting', 'intersecting', 'intertwisting', 'intervening', 'inventing', 'investing', 'inviting', 'invoking', 'involving', 'inwreathing', 'issuing', 'jabbering', 'jamming', 'jeering', 'jerking', 'jetting', 'jingling', 'joining', 'joking', 'judging', 'j uggling', 'jumping', 'jumping', 'keeping', 'kicking', 'kidnapping', 'killing', 'knocking', 'knitting', 'knowing', 'knowing', 'landng', 'lanquishing', 'lashi ng', 'lasting', 'lathering', 'laughing', 'launching', 'laying', 'leading', 'leaking', 'leaning', 'leaping', 'learning', 'leaving', 'leaving', 'letting', 'lifting', 'lighting', 'li ghtning', 'limping', 'lingering', 'lining', 'listening', 'living', 'loading', 'lobtailing', 'locking', 'loitering', 'longing', 'looking', 'looming', 'loosening', 'lording', 'los ing', 'louncing', 'loving', 'lowering', 'lunging', 'lurching', 'lurking', 'lying', 'maddening', 'magnetizing', 'magnifying', 'maining', 'maintaining', 'making', 'managing', 'manu facturing', 'marching', 'marking', 'marling', 'marring', 'marvelling', 'mastering', 'meaning', 'measuring', 'meddling', 'meeting', 'melting', 'menacing', 'mending', 'mentioning', 'merging', 'midding', 'migrating', 'milling', 'mimicking', 'mincing', 'mingling', 'misgiving', 'missing', 'mistaking', 'mistifying', 'mixing', 'moaning', 'mobbng', 'mocking', 'modifying', 'molesting', 'mongering', 'monopolizing', 'mornng', 'mortemizing', 'motioning', 'mounting', 'mourning', 'moving', 'muffling', 'mumbling', 'murdering', 'murmuring', 'musterng', 'mutinyng', 'muttering', 'mystifying', 'nailing', 'napping', 'narrating', 'nearing', 'needing', 'neighboring', 'nestling', 'nibbling', 'nothing', 'noticing', 'notin g', 'notwithstanding', 'nourishing', 'nursing', 'obeying', 'obscuring', 'observing', 'obtruding', 'occupying', 'offering', 'officiating', 'offing', 'offspring', 'oilpainting', 'o pening', 'opening', 'opposing', 'ordering', 'ordering', 'outbawling', 'outbawling', 'outbreaching', 'outbreaching', 'outbushng', 'overbearing', 'overburdening', 'overdoin 'overfloading', 'overgrowing', 'overhanging', 'overlapping', 'overlooking', 'overloading', 'overruling', 'overscoring', 'overseeing', 'overspreading', 'overtaking', 'overwhelm ing', 'owing', 'owning', 'pacing', 'padding', 'painstaking', 'painting', 'palavering', 'panting', 'parading', 'parcelling', 'partaking', 'participating', 'parting', 'passing', 'p atrolling', 'patronizing', 'pausing', 'paying', 'peaking', 'pealing', 'pecking', 'peddling', 'peeling', 'peeping', 'peering', 'pegging', 'penetrating', 'penning', 'peopling', 'p receiving', 'performing', 'perishing', 'permitting', 'persevering', 'persisting', 'persuading', 'pertaining', 'pervading', 'picking', 'piercing', 'pilfering', 'piling', 'piping', 'piroouetting', 'pitching', 'pitchpoling', 'placing', 'planing', 'planting', 'playing', 'plaything', 'pleasing', 'pleasuring', 'ploughing', 'plumping', 'plunging', 'plying', 'pock eting', 'pointing', 'poising', 'polishing', 'pondering', 'popping', 'poring', 'possessing', 'postponing', 'pouring', 'prating', 'praying', 'preaching', 'preceding', 'precipitati ng', 'predesignating', 'predominating', 'preluding', 'preparing', 'presaging', 'presenting', 'preserving', 'presiding', 'presuming', 'pretending', 'prevailing', 'pricking', 'print ing', 'proceeding', 'proceeding', 'proceeding', 'proceeding', 'proceeding', 'proceeding', 'proceeding', 'proceeding', 'proceeding', 'proceeding', 'proceeding', 'proceeding', 'prying', 'pudding', 'puffing', 'pulling', 'pumping', 'purchasing', 'purporting', 'purposing', 'pursuing', 'pushing', 'putting', 'puzzling', 'questioning', 'quickenng', 'quitting', 'quivering', 'racing', 'radiating', 'raging', 'railing', 'raising', 'ramifying', 'ramming', 'ranging', 'rapping', 'ratifying', 'rattling', 'ravening', 'raving', 'reaching', 'r eading', 'realizing', 'reaping', 'rearing', 'reasoning', 'rebelling', 'receding', 'receiving', 'reciprocating', 'reckoning', 'reclining', 'recessing', 'recurring', 'reddening', 'redeeming', 'reefing', 'reeling', 'reeving', 'referring', 'refining', 'reforming', 'refreshing', 'refusing', 'regarding', 'regulating', 'rehearsing', 'reigning', 'reiterating', 'rejecting', 'rejoicing', 'relieving', 'relying', 'remaining', 'remarking', 'remembering', 'reminding', 'remonstrating', 'remounting', 'removing', 'rendering', 'rending', 'renoun cing', 'repairing', 'repassing', 'repeating', 'repelling', 'repenting', 'replacing', 'reporting', 'reposing', 'representing', 'requiring', 'rescuing', 'resembling', 'reserving', 'residing', 'resolving', 'resorting', 'respecting', 'resting', 'restricting', 'resulting', 'resuming', 'retaining', 'retarding', 'retiring', 'retracing', 'retreating', 'returning', 'revealing', 'reverberating', 'reversing', 'revolving', 'riding', 'ridding', 'ring', 'ringing', 'rioting', 'ripening', 'ripping', 'rising', 'roaring', 'rocking', 'rollicking', 'rolling', 'roosting', 'rounding', 'rousing', 'rowing', 'rubbing', 'ruling', 'rumbling', 'ruminating', 'ruming', 'rustling', 'rustling', 'rustling', 'rustling', 'rustling', 'rustling', 'sautering', 'sauntering', 'saving', 'saying', 'scalding', 'scalping', 'scaming', 'scarfing', 'scheming', 'scolding', 'scorching', 'scraping', 'scratching', 'screaming', 'screwing', 'scrutinizing', 'scuffling', 'scuttling', 'searching', 'seasoning', 'seating', 'securing', 'seducing', 'seeing', 'seeking', 'seeming', 'seething', 'seizing', 'selecting', 'selling', 'sending', 'separating', 'serving', 'setting', 'settling', 'sewing', 'shading', 'shaking', 'shambling', 'shaping', 'sharing', 'sharpening', 'shearing', 'sheathing', 'sheering', 'shifting', 'shilling', 'shining', 'shipping', 'shivering', 'shocking', 'shooting', 'shouldering', 'shouting', 'shoving', 'showing', 'shrinking', 'shrinking', 'shud dering', 'shuffling', 'shunning', 'siding', 'sighting', 'signifying', 'signing', 'sinewing', 'sing', 'singing', 'sinking', 'sinning', 'sipping', 'sitting', 'sketching', 'skimming', 'skirting', 'skrimshandering', 'skulking', 'skylarking', 'slacking', 'slamming', 'slanting', 'slapping', 'slashing', 'slaughtering', 'sleeping', 'slewing', 'sliding', 'sling', 'slippering', 'slipping', 'sloping', 'slouching', 'slumbering', 'smacking', 'smelling', 'smiling', 'smiting', 'smoking', 'smothering', 'smuggling', 'snapping', 'snatching', 'sne aking', 'sneering', 'sneezing', 'snoozing', 'snoring', 'snorting', 'snuffing', 'snuffling', 'sobbing', 'sojourning', 'soliloquizing', 'something', 'soothing', 'sounding', 'spangl ing', 'sparing', 'sparkling', 'speaking', 'speeding', 'spelling', 'spending', 'spilling', 'spinning', 'spiraling', 'spiralling', 'splashing', 'splintering', 'spluttering', 'spo iling', 'sporting', 'spouting', 'spraining', 'sprawling', 'spreading', 'spring', 'springing', 'sprinkling', 'spying', 'squiring', 'squatting', 'squeezing', 'stabbing', 'stacking', 'staggering', 'stalking', 'stamping', 'standing', 'staring', 'starting', 'startling', 'stating', 'staying', 'staying', 'stealing', 'stealing', 'steering', 'stepping', 'sternin g', 'sticking', 'stiffening', 'stifling', 'sting', 'stirring', 'stooping', 'stopping', 'stowing', 'straddling', 'straggling', 'straining', 'streaming', 'stretching', 'striding', 'striking', 'string', 'stripping', 'striving', 'struggling', 'strutting', 'studying', 'stultifying', 'stumbling', 'stunning', 'subsiding', 'substituting', 'succeeding', 'sucking', 'suckling', 'suffering', 'suffusing', 'summoning', 'sundering', 'supplicating', 'supplying', 'supposing', 'surging', 'surprising', 'surrounding', 'surveying', 'surv iving', 'suspecting', 'suspending', 'sustaining', 'swapping', 'swarming', 'swashing', 'swaying', 'sweating', 'sweeping', 'swelling', 'swimming', 'swing', 'swinging', 'switching', 'swooping', 'taking', 'talking', 'tanning', 'tantalizing', 'tapering', 'tapping', 'tarnishing', 'tasting', 'tattooing', 'teetering', 'telling', 'tempering', 'tending', 'tensing', 'terminating', 'tetering', 'thickening', 'thing', 'thinking', 'thrashing', 'threading', 'threatening', 'thrilling', 'throbbing', 'throwing', 'thrusting', 'thundering', 'ticking', 'tilting', 'tinder', 'tinting', 'tinkering', 'tinkling', 'tipping', 'toasting', 'toiling', 'tolling', 'toppling', 'tormwing', 'tossing', 'touch 'towering', 'towing', 'toying', 'tracing', 'trading', 'trailing', 'tramping', 'trampling', 'transferring', 'travelling', 'treating', 'treating', 'trebling', 'trending', 'tri cking', 'trifling', 'trimming', 'trotting', 'trudging', 'trying', 'tucking', 'tugging', 'tumbling', 'turning', 'twiggng', 'twinking', 'twisting', 'twisting', 'twisting', 'twisting', 'unbuckling', 'unbuckling', 'unbuckling', 'unbuckling', 'unbuckling', 'unbuckling', 'unbuckling', 'unbuckling', 'unbuckling', 'unbuckling', 'unbuckling', 'unbuckling', 'unbuckling', 'unerring', 'unexaggerating', 'unfailing', 'unfaltering', 'unfearing', 'unflattering', 'unflinching', 'unfolding', 'unfurling', 'unharming', 'unhealing', 'unknowing', 'unl acing', 'unloading', 'unloitering', 'unmisgiving', 'unpitying', 'unpleasing', 'unreasoning', 'unrecking', 'unrelenting', 'unresting', 'unretracing', 'unrolling', 'unsettling', 'un signifying', 'unsleeping', 'unstaggering', 'unstirring', 'unstuffing', 'unsuspecting', 'untagging', 'unthinking', 'untottering', 'unvarying', 'unwaning', 'unwilling', 'unwinding', 'unwinking', 'unworshipping', 'unyielding', 'upbraidng', 'upheaving', 'upholding', 'upraising', 'uprising', 'urging', 'using', 'uttering', 'vacating', 'varying', 'venting', 'vibrating', 'viewing', 'visiting', 'vivifying', 'voicing', 'voyaging', 'voicing', 'waiting', 'waiting', 'waiting', 'waiting', 'waiting', 'waiting', 'waiting', 'waiting', 'wanting', 'warbling', 'warming', 'warming', 'warming', 'warming', 'warming', 'warming', 'warming', 'warming', 'warming', 'warming', 'warming', 'weighing', 'welding', 'weltering', 'whaleboning', 'whaling', 'wheeling', 'wheeling', 'whipping', 'whirling', 'whispering', 'whistling', 'whittling', 'whooping', 'widening', 'willing', 'winning', 'winding', 'wing', 'winking', 'wiping', 'withdrawing', 'withholding', 'withstanding', 'witnessing', 'wondering', 'wooning', 'working', 'worming', 'worship ing', 'wounding', 'wrangling', 'wrapping', 'wrenching', 'wrestling', 'wriggling', 'wring', 'wrinkling', 'writhing', 'writing', 'yawing', 'yawning', 'yelling', 'yielding', 'yoking']

1.3 Every word contains substring 'pen' or 'men'

Code

```
if(re.search(".*(pen men).*",w):
```

1.4 Every word contains substring starts by 'un' or 'pre'

[illegible]

1.5 Every word presents as 2-digit numbers

```
Code if(re.search("[0-9]{2}$",w)):
```

Assignment 2

```
import nltk

from nltk.tokenize import sent_tokenize, word_tokenize
from nltk.probability import FreqDist
from nltk.corpus import stopwords
import re
import csv

# Import csv file
data = ""
with open('tweets_all.csv', errors="ignore") as myfile:
    reader = csv.reader(myfile, delimiter = '\n')
    for row in reader:
        data += row[0]

# Find number of sentence
sentence = sent_tokenize(data)
print("The number of sentences: ", len(sentence))

# Word tokenize
words = word_tokenize(data)

# Create a pattern to find words to search for
pattern = '[a-zA-Z]{3,}'
regex = re.compile(pattern)
search = regex.findall(data)

# Add stop word in english
stop_words = set(stopwords.words('english'))

# Filter to remove stop words
wordsFiltered = []
for w in search:
    if w not in stop_words:
        wordsFiltered.append(w)

# Find the most used words
fdist = FreqDist(wordsFiltered)

# Sort the most used words
sortData = sorted(fdist.items(), key=lambda k:k[1] ,reverse=True)

# Show sort of the most used 20 words
for i in range(20):
    print(sortData[i])
```

ผลลัพธ์ที่ได้จากการรัน

```
D:\NLP>c:/python38/python.exe d:/NLP/week2-assignment2.py
The number of sentences: 3362
('world', 331)
('get', 314)
('around', 298)
('enjoy', 297)
('camera', 287)
('bring', 286)
('ready', 285)
('view', 284)
('sunrise', 283)
('sunset', 283)
('Fixed', 283)
('Updated', 283)
('Developed', 283)
('love', 242)
('life', 187)
('Love', 183)
('fan', 177)
('http', 174)
('com', 170)
('God', 124)
```

เพิ่มเติม

เนื่องจาก stop word นั้นไปประกอบไปดั่งคำต่าง ๆ ตามรูปด้านล่างนั้น ทำให้ผลลัพธ์ที่ได้ไม่ตรงตามตัวอย่างผลลัพธ์ที่อยู่ assignment

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stop_words = {'or', 'same', "aren't", 'at', 'over', 'themselves', 'himself', 'having', 'below', 'does', 't', 'it', 'be', 'in', "couldn't", 'wasn', 'm', 'once', 's', 'above', "sh  
ouldn't", 'under', 'during', 'up', 'but', 'each', 'weren', 'had', 'our', 'mustn', 'have', 'll', 'nor', 'between', 'why', 'him', "needn't", 've', 'just', 'is', 'what', 'by', 'to',  
'd', 'yourselves', "mightn't", 'won', 'again', 'you', 'if', 'out', 'the', 'needn', "didn't", 'while', 'on', "it's", "you'd", "that'll", 'don't', 'not', 'don', 'ma', 'hasn', 'thi  
s', 'any', "weren't", "mustn't", 'ours', 'did', 'off', 'your', 'its', 'will', 'yourself', 'my', 'how', 'am', "hadn't", 'such', 'than', 'there', 're', 'as', 'about', 'doing', 'her  
s', 'before', 'own', 'through', 'doesn', 'after', 'then', 'where', 'yours', 'ourselves', "you'll", "wasn't", 'should', 'y', "wouldn't", 'from', 'of', "she's", 'which', 'i', 'were  
's', 'down', 'now', "won't", 'ain', 'wouldn', 'theirs', 'shan', 'and', 'can', 'them', 'all', 'was', 'her', 'he', 'me', 'shouldn', 'isn', 'myself', 'no', 'an', 'few', 'herself', 'ha  
ven't", 'very', "doesn't", 'aren', 'until', 'who', 'o', 'haven', "isn't", 'for', 'these', 'we', 'she', 'do', "should've", 'some', 'been', 'they', 'both', 'has', 'further', 'his',  
'with', 'their', 'other', 'a', 'mightn', 'those', 'are', 'only', 'hadn', "you're", 'into', 'most', 'too', 'being', "shan't", 'itself', "you've", 'against', 'hasn't', 'because',  
'when', 'whom', 'here', 'so', 'that', 'couldn', 'more', 'didn'}
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