

BUSINESS REPORT

- 2.1 Find the number of characters, words, and sentences for the mentioned documents (3)**
- 2.2 Remove all the stopwords from all three speeches. (3-7)**
- 2.3 Which word occurs the most number of times in his inaugural address for each president? Mention the top three words. (after removing the stopwords) (7)**
- 2.4 Plot the word cloud of each of the speeches of the variable. (after removing the stopwords) (7-8)**

2.1) Find the number of characters, words and sentences for the mentioned documents.

Total number of characters-

Roosevelt- 7571

Kennedy - 7618

Nixon- 9991

Total number of words –

Roosevelt- 1536

Kennedy- 1546

Nixon- 2028

Total number of sentences –

Roosevelt- 68

Kennedy- 52

Nixon- 69

2.2) Remove all the stopwords from the three speeches. Show the word count before and after the removal of stopwords. Show a sample sentence after the removal of stopwords.

Roosevelt

Word count before- 1536

Word count after stopwords removal- 627

national day inauguration since 1789 people renewed sense dedication united states washingtons day task
people create weld together nation lincolns day task people preserve nation disruption within day task people
save nation institutions disruption without us come time midst swift happenings pause moment take stock
recall place history rediscover may risk real peril inaction lives nations determined count years lifetime human
spirit life man threescore years ten little little less life nation fullness measure live men doubt men believe
democracy form government frame life limited measured kind mystical artificial fate unexplained reason
tyranny slavery become surging wave future freedom ebbing tide americans know true eight years ago life
republic seemed frozen fatalistic terror proved true midst shock acted acted quickly boldly decisively later
years living years fruitful years people democracy brought us greater security hope better understanding lifes
ideals measured material things vital present future experience democracy successfully survived crisis home
put away many evil things built new structures enduring lines maintained fact democracy action taken within
threeway framework constitution united states coordinate branches government continue freely function bill
rights remains inviolate freedom elections wholly maintained prophets downfall american democracy seen
dire predictions come naught democracy dying know seen reviveand grow know cannot die built unhampered
initiative individual men women joined together common enterprise enterprise undertaken carried free
expression free majority know democracy alone forms government enlists full force mens enlightened know

democracy alone constructed unlimited civilization capable infinite progress improvement human life know
look surface sense still spreading every continent humane advanced end unconquerable forms human society
nation like person bodya body must fed clothed housed invigorated rested manner measures objectives time
nation like person mind mind must kept informed alert must know understands hopes needs neighbors
nations live within narrowing circle world nation like person something deeper something permanent
something larger sum parts something matters future calls forth sacred guarding present thing find difficult
even impossible hit upon single simple word yet understand spirit faith america product centuries born
multitudes came many lands high degree mostly plain people sought early late find freedom freely democratic
aspiration mere recent phase human history human history permeated ancient life early peoples blazed anew
middle ages written magna charta americas impact irresistible america new world tongues peoples continent
newfound land came believed could create upon continent new life life new freedom vitality written
mayflower compact declaration independence constitution united states gettysburg address first came carry
longings spirit millions followed stock sprang moved forward constantly consistently toward ideal gained
stature clarity generation hopes republic cannot forever tolerate either undeserved poverty selfserving wealth
know still far go must greatly build security opportunity knowledge every citizen measure justified resources
capacity land enough achieve purposes alone enough clothe feed body nation instruct inform mind also spirit
three greatest spirit without body mind men know nation could live spirit america killed even though nations
body mind constricted alien world lived america know would perished spirit faith speaks us daily lives ways
often unnoticed seem obvious speaks us capital nation speaks us processes governing sovereignties 48 states
speaks us counties cities towns villages speaks us nations hemisphere across seas enslaved well free
sometimes fail hear heed voices freedom us privilege freedom old old story destiny america proclaimed words
prophecy spoken first president first inaugural 1789 words almost directed would seem year 1941 preservation
sacred fire liberty destiny republican model government justly considered deeply finally staked experiment
intrusted hands american people lose sacred fireif let smothered doubt fear shall reject destiny washington
strove valiantly triumphantly establish preservation spirit faith nation furnish highest justification every
sacrifice may make cause national defense face great perils never encountered strong purpose protect
perpetuate integrity democracy muster spirit america faith america retreat content stand still americans go
forward service country god

Kennedy

Word count before- 1546

Word count after stopwords removal- 693

vice president johnson mr speaker mr chief justice president eisenhower vice president nixon president truman
reverend clergy fellow citizens observe today victory party celebration freedom symbolizing end well beginning
signifying renewal well change sworn almighty god solemn oath forebears I prescribed nearly century three
quarters ago world different man holds mortal hands power abolish forms human poverty forms human life yet
revolutionary beliefs forebears fought still issue around globe belief rights man come generosity state hand god
dare forget today heirs first revolution let word go forth time place friend foe alike torch passed new
generation americans born century tempered war disciplined hard bitter peace proud ancient heritage
unwilling witness permit slow undoing human rights nation always committed committed today home around
world let every nation know whether wishes us well ill shall pay price bear burden meet hardship support
friend oppose foe order assure survival success liberty much pledge old allies whose cultural spiritual origins
share pledge loyalty faithful friends united little cannot host cooperative ventures divided little dare meet
powerful challenge odds split asunder new states welcome ranks free pledge word one form colonial control
shall passed away merely replaced far iron tyranny shall always expect find supporting view shall always hope
find strongly supporting freedom remember past foolishly sought power riding back tiger ended inside peoples
huts villages across globe struggling break bonds mass misery pledge best efforts help

help whatever period required communists may seek votes right free society cannot help many poor cannot save rich sister republics south border offer special pledge convert good words good deeds new alliance progress assist free men free governments casting chains poverty peaceful revolution hope cannot become prey hostile powers let neighbors know shall join oppose aggression subversion anywhere americas let every power know hemisphere intends remain master house world assembly sovereign states united nations last best hope age instruments war far outpaced instruments peace renew pledge support to prevent becoming merely forum invective strengthen shield new weak enlarge area writ may run finally nations would make adversary offer pledge request sides begin anew quest peace dark powers destruction unleashed science engulf humanity planned accidental selfdestruction dare tempt weakness arms sufficient beyond doubt certain beyond doubt never employed neither two great powerful groups nations take comfort present course sides overburdened cost modern weapons rightly alarmed steady spread deadly atom yet racing alter uncertain balance terror stays hand mankind's final war let us begin anew remembering sides civility sign weakness sincerity always subject proof let us never negotiate fear let us never fear negotiate let sides explore problems unite us instead belaboring problems divide us let sides first time formulate serious precise proposals inspection control arms bring absolute power destroy nations absolute control nations let sides seek invoke wonders science instead terrors together let us explore stars conquer deserts eradicate disease tap ocean depths encourage arts commerce let sides unite heed corners earth command isaiah undo heavy burdens let oppressed go free beachhead cooperation may push back jungle suspicion let sides join creating new endeavor new balance power new world law strong weak secure peace preserved finished first 100 days finished first 1000 days life administration even perhaps lifetime planet let us begin hands fellow citizens mine rest final success failure course since country founded generation americans summoned give testimony national loyalty graves young americans answered call service surround globe trumpet summons us call bear arms though arms need call battle though embattled call bear burden long twilight struggle year year rejoicing hope patient tribulation struggle common enemies man tyranny poverty disease war forge enemies grand global alliance north south east west assure fruitful life mankind join historic effort long history world generations granted role defending freedom hour maximum danger shrink responsibility welcome believe us would exchange places people generation energy faith devotion bring endeavor light country serve glow fire truly light world fellow americans ask country ask country fellow citizens world ask america together freedom man finally whether citizens america citizens world ask us high standards strength sacrifice ask good conscience sure reward history final judge deeds let us go forth lead land love asking blessing help knowing earth gods work must truly

Nixon

Word count before- 2028

Word count after stopwords removal- 833

mr vice president mr speaker mr chief justice senator cook mrs eisenhower fellow citizens great good country share together met four years ago america bleak spirit depressed prospect seemingly endless war abroad destructive conflict home meet today stand threshold new era peace world central question us shall use peace let us resolve era enter postwar periods often time retreat isolation leads stagnation home invites new danger abroad let us resolve become time great responsibilities greatly borne renew spirit promise america enter third century nation past year saw farreaching results new policies peace continuing revitalize traditional friendships missions peking moscow able establish base new durable pattern relationships among nations world americas bold initiatives 1972 long remembered year greatest progress since end world war ii toward lasting peace world peace seek world flimsy peace merely interlude wars peace endure generations come important understand necessity limitations americas role maintaining peace unless america work

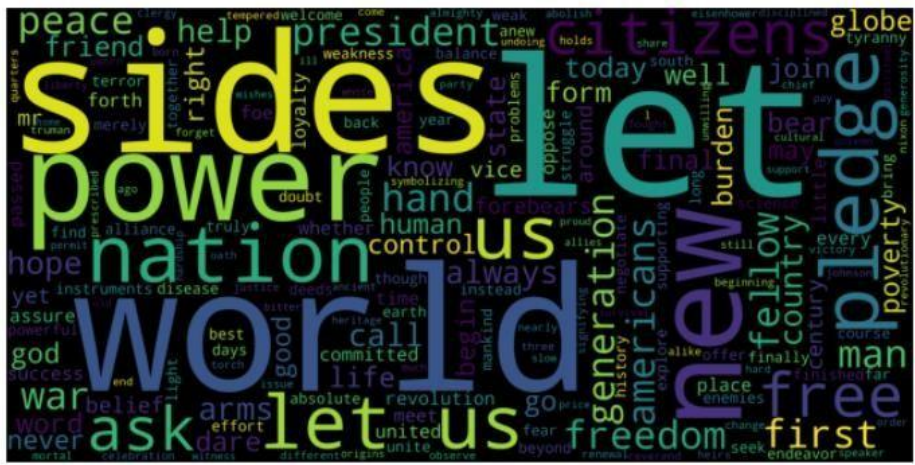
preserve peace peace unless america work preserve freedom freedom let us clearly understand new nature americas role result new policies adopted past four years shall respect treaty commitments shall support vigorously principle country right impose rule another force shall continue era negotiation work limitation nuclear arms reduce danger confrontation great powers shall share defending peace freedom world shall expect others share time passed america make every nations conflict make every nations future responsibility presume tell people nations manage affairs respect right nation determine future also recognize responsibility nation secure future americas role indispensable preserving worlds peace nations role indispensable preserving peace together rest world let us resolve move forward beginnings made let us continue bring walls hostility divided world long build place bridges understanding despite profound differences systems government people world friends let us build structure peace world weak safe strong respects right live different system would influence others strength ideas force arms let us accept high responsibility burden gladly gladly chance build peace noblest endeavor nation engage gladly also act greatly meeting responsibilities abroad remain great nation remain great nation act greatly meeting challenges home chance today ever history make life better america ensure better education better health better housing better transportation cleaner environment restore respect law make communities livable insure godgiven right every american full equal opportunity range needs great reach opportunities great let us bold determination meet needs new ways building structure peace abroad required turning away old policies failed building new era progress home requires turning away old policies failed abroad shift old policies new retreat responsibilities better way peace home shift old policies new retreat responsibilities better way progress abroad home key new responsibilities lies placing division responsibility lived long consequences attempting gather power responsibility washington abroad home time come turn away condescending policies paternalism washington knows best person expected act responsibly responsibility human nature let us encourage individuals home nations abroad decide let us locate responsibility places let us measure others today offer promise purely governmental solution every problem lived long false promise trusting much government asked deliver leads inflated expectations reduced individual effort disappointment frustration erode confidence government people government must learn take less people people let us remember america built government people welfare work shirking responsibility seeking responsibility lives let us ask government challenges face together let us ask government help help national government great vital role play pledge government act act boldly lead boldly important role every one us must play individual member community day forward let us make solemn commitment heart bear responsibility part live ideals together see dawn new age progress america together celebrate 200th anniversary nation proud fulfillment promise world americas longest difficult war comes end let us learn debate differences civility decency let us reach one precious quality government cannot provide new level respect rights feelings one another new level respect individual human dignity cherished birthright every american else time come us renew faith america recent years faith challenged children taught ashamed country ashamed parents ashamed americas record home role world every turn beset find everything wrong america little right confident judgment history remarkable times privileged live americas record century unparalleled worlds history responsibility generosity creativity progress let us proud system produced provided freedom abundance widely shared system history world let us proud four wars engaged century including one bringing end fought selfish advantage help others resist aggression let us proud bold new initiatives steadfastness peace honor made breakthrough toward creating world world known structure peace last merely time generations come embarking today era presents challenges great nation generation ever faced

2.3) Which word occurs the most number of times in his inaugural address for each president? Mention the top three words.

Kennedy - let, us, world and sides (occurrence of both sides and world is 8 times)

2.4) Plot the word cloud of each of the three speeches.

Kennedy-



Nixon-



END