Project 1 Solution

Challenge3 text – Caesar Cipher

Used the frequency tool to determine the encoded text had the letter J the largest number of times. In the English alphabet, the most common letter is E. Shifting E->J would make a shift of 5. Used an online Caesar decoding tool with the encoded text and a shift of 5 to get the decoded text shown below:

AMENDMENTICONGRESSSHALLMAKENOLAWRESPECTINGANESTABLISHMENTOFRELIGIONORPROHIBITINGTHEFREEEXERCISETHEREOFORABRIDGINGTHEFREEDOMOFSPEECHOROFTHEPRESSORTHERIGHTOFTHEPEOPLEPEACEABLYTOASSEMBLEANDTOPETITIONTHEGOVERNMENTFORAREDRESSOFGRIEVANCESAMENDMENTIIAWELLREGULATEDMILITIABEINGNECESSARYTOTHESECURITYOFAFREESTATETHERIGHTOFTHEPEOPLETOKEEPANDBEARARMSSHALLNOTBEINFRINGEDAMENDMENTIIINOSOLDIERSHALLINTIMEOFPEACEBEQUARTEREDINANYHOUSEWITHOUTTHECONSENTOFTHEOWNERNORINTIMEOFWARBUTINAMANNERTOBEPRESCRIBEDBYLAWAMENDMENTIVTHERIGHTOFTHEPEOPLETOBESECUREINTHEIRPERSONSHOUSESPAPERSANDEFFECTSAGAINSTUNREASONABLESEARCHESANDSEIZURESSHALLNOTBEVIOLATEDANDNOWARRANTSSHALLISSUEBUTUPONPROBABLECAUSESUPPORTEDBYOATHORAFFIRMATIONANDPARTICULARLYDESCRIBINGTHEPLACETOBESEARCHEDANDTHEPERSONSORTHINGSTOBESEIZEDAMENDMENTVNOPERSONSHALLBEHELDTOANSWERFORACAPITALOROTHERWISEINFAMOUSCRIMEUNLESSONAPRESENTMENTORINDICTMENTOFAGRANDJURYEXCEPTINCASESARISINGINTHELANDORNAVALFORCESORINTHEMILITIAWHENINACTUALSERVICEINTIMEOFWARORPUBLICDANGERNORSHALLANYPERSONBESUBJECTFORTHESAMEOFFENSETOBETWICEPUTINJEOPARDYOFLIFEORLIMBNORSHALLBECOMPELLEDINANYCRIMINALCASETOBEAWITNESSAGAINSTH

Challenge5 text – Caesar Cipher

Used the frequency tool to determine the encoded text had the letter Q the largest number of times. In the English alphabet, the most common letter is E. Shifting E->Q would make a shift of 12. Used an online Caesar decoding tool with the encoded text and a shift of 12 to get the decoded text shown below:

AMANSTOODUPONARAILROADBRIDGEINNORTHERNALABAMALOOKINGDOWNINTOTHESWIFTWATERTWENTYFEETBELOWTHEMANSHANDSWEREBEHINDHISBACKTHEWRISTSBOUNDWITHACORDAROPECLOSELYENCIRCLEDHISNECKITWASATTACHEDTOASTOUTCROSSTIMBERABOVEHISHEADANDTHESLACKFELLTOTHELEVELOFHISKNEESSOMELOOSEBOARDSLAIDUPONTHETIESSUPPORTINGTHERAILSOFTHERAILWAYSUPPLIEDAFOOTINGFORHIMANDHISEXECUTIONERSTWOPRIVATESOLDIERSOFTHEFEDERALARMYDIRECTEDBYASERGEANTWHOINCIVILLIFEMAYHAVEBEENADEPUTYSHERIFFATASHORTREMOVEUPONTHESAMETEMPORARYPLATFORMWASANOFFICERINTHEUNIFORMOFHISRANKARMEDHEWASACAPTAINASENTINELATEACHENDOFTHEBRIDGESTOODWITHHISRIFLEINTHEPOSITIONKNOWNASSUPPORTTHATISTOSAYVERTICALINFRONTOFTHELEFTSHOULDERTHEHAMMERRESTINGONTHEFOREARMTHROWNSTRAIGHTACROSSTHECHESTAFORMALANDUNNATURALPOSITIONENFORCINGANERECTCARRIAGEOFTHEBODYITDIDNOTAPPEARTOBETHEDUTYOFTHESETWOMENTOKNOWWHATWASOCCURRINGATTHECENTEROFTHEBRIDGETHEYMERELYBLOCKADEDTHETWOENDSOFTHEFOOTPLANKINGTHATTRAVERSEDITBEYONDONEOFTHESENTINELSNOBODYWASINSIGHTTHERAILROADRANSTRAIGHTAWAYINTOAFORESTFORAHUNDREDYARDSTHENCURVINGWASLOSTTOVIEWDOUBTLESSTHEREWASANOUTPOSTFARTHERALONGTHEOTHERBANKOFTHESTREAMWASOPENGROUNDAGENTLESLOPETOPPEDWITHASTOCKADEOFVERTICALTREETRUNKSLOOPHOLEDFORRIFLESWITHASINGLEEMBRASURETHROUGHWHICHPROTRUDEDTHEMUZZLEOFABRASSCANNONCOMMANDINGTHEBRIDGEMIDWAYUPTHESLOPEBETWEENTHEBRIDGEANDFORTWERETHESPECTATORSASINGLECOMPANYOFINFANTRYINLINEATPARADERESTTHEBUTTSOFTHEIRRIFLESONTHEGROUNDTHEBARRELSINCLININGSLIGHTLYBACKWARDAGAINSTTHERIGHTSHOULDERTHEHANDSCROSSEDUPONTHESTO