ASSIGNMENT # 01



Fall 2024

**CSE-425 Computer Security (Elective)**

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Registration No.: 21PWCSE2028

Section: C

“On my honor, as a student of the University of Engineering and Technology, I have neither given nor received unauthorized assistance on this academic work”

Submitted to:

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(6 Nov 2024)

Department of Computer systems engineering

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KFD KTBD FZM EUBD KFD PZYIOM MZTX KU KZYG UR BZHA KFTHCM UR MFUDM ZHX MFTNM ZHX MDZYTHC PZQ UR EZSSZCDM ZHX GTHCM ZHX PFA KFD MDZ TM SUTYTHC FUK ZHX PFDKFDI NTCM FZLD PTHCM SOK PZTK Z STK KFD UAMKDIM EITDX SDRUID PD FZLD UOI EFZK RUI MUBD UR OM ZID UOK UR SIDZKF ZHX ZYY UR OM ZID RZK HU FOIIA MZTX KFD EZINDHKDI KFDA KFZHGDX FTB BOEF RUI KFZK

**Solution**

Frequency of Each Letter in Coded Message

The frequency of each letter in your coded message:

* Z: 30
* D: 28
* K: 24
* F: 23
* M: 21
* U: 19
* T: 16
* I: 15
* H: 15
* X: 10
* R: 10
* O: 8
* P: 7
* C: 7
* S: 7
* B: 6
* E: 6
* Y: 6
* A: 5
* G: 3
* N: 3
* L: 2
* Q: 1

**Replace Z by A since at one place it is used as a single element:**

“KFD KTBD FaM EUBD KFD PaYIOM MaTX KU KaYG UR BaHA KFTHCM UR MFUDM aHX MFTNM aHX MDaYTHC PaQ UR EaSSaCDM aHX GTHCM aHX PFA KFD MDa TM SUTYTHC FUK aHX PFDKFDI NTCM FaLD PTHCM SOK PaTK a STK KFD UAMKDIM EITDX SDRUID PD FaLD UOI EFaK RUI MUBD UR OM aID UOK UR SIDaKF aHX aYY UR OM aID RaK HU FOIIA MaTX KFD EaINDHKDI KFDA KFaHGDX FTB BOEF RUI KFaK”

**Replace D by E since it has the next highest frequency K by T because it has 3rd highest:**

“TFE TTBE FAM EUBE TFE PAYIOM MATX TU TAYG UR BAHA THTHCM UR MHUEM AHX MHTNM AHX MEAYTHC PAQ UR EASSACEM AHX GTHCM AHX PHA THE MEA TM SUTYTHC HUT AHX PFETHEI NTCM FALE PTHCM SOT PATT A STT TFE UAMTEIM EITEX SERUIE PE FALE UOI EFAT RUI MUBE UR OM AIE UOT UR SIEATF AHX AYY UR OM AIE RAT HU FOIIA MATX TFE EAINEHTEI TFEA TFAHGEX FTB BOEF RUI TFAT”

**Replace F by H and Y by L:**

“THE TTBE HAM EUBE THE PALIOM MATX TU TALG UR BAHA THTHCM UR MHUEM AHX MHTNM AHX MEALTHC PAQ UR EASSACEM AHX GTHCM AHX PHA THE MEA TM SUTLTHC HUT AHX PHETHEI NTCM HALE PTHCM SOT PATT A STT THE UAMTEIM EITEX SERUIE PE HALE UOI EHAT RUI MUBE UR OM AIE UOT UR SIEATH AHX ALL UR OM AIE RAT HU HOIIA MATX THE EAINEHTEI THEA THAHGEX HTB BOEH RUI THAT”

**Replace G by K:**

“THE TTBE HAM EUBE THE PALIOM MATX TU TALK UR BAHA THTHCM UR MHUEM AHX MHTNM AHX MEALTHC PAQ UR EASSACEM AHX KTHCM AHX PHA THE MEA TM SUTLTHC HUT AHX PHETHEI NTCM HALE PTHCM SOT PATT A STT THE UAMTEIM EITEX SERUIE PE HALE UOI EHAT RUI MUBE UR OM AIE UOT UR SIEATH AHX ALL UR OM AIE RAT HU HOIIA MATX THE EAINEHTEI THEA THAHKEX HTB BOEH RUI THAT”

**Replace M by S:**

“THE TTBE HAS EUBE THE PALIOS SATX TU TALK UR BAHA THTHCS UR SHUES AHX SHTNS AHX SEALTHC PAQ UR EASSACES AHX KTHCS AHX PHA THE SEA TS SUTLTHC HUT AHX PHETHEI NTCS HALE PTHCS SOT PATT A STT THE UASTEIS EITEX SERUIE PE HALE UOI EHAT RUI SUBE UR OS AIE UOT UR SIEATH AHX ALL UR OS AIE RAT HU HOIIA SATX THE EAINEHTEI THEA THAHKEX HTB BOEH RUI THAT”

**Replace L by V and U by O:**

“THE TTBE HAS EOBE THE PALIOS SATX TO TALK OR BAHA THTHCS OR SHOES AHX SHTNS AHX SEALTHC PAQ OR EASSACES AHX KTHCS AHX PHA THE SEA TS SOTLTHC HOT AHX PHETHEI NTCS HAVE PTHCS SOT PATT A STT THE OASTEIS EITEX SEROIE PE HAVE OOI EHAT ROI SOBE OR OS AIE UOT OR SIEATH AHX ALL OR OS AIE RAT HO HOIIA SATX THE EAINEHTEI THEA THAHKEX HTB BOEH ROI THAT”

**Replace B by M and R by F:**

“THE TTME HAS EOME THE PALIOS SATX TO TALK OF MAHA THTHCS OF SHOES AHX SHTNS AHX SEALTHC PAQ OF EASSACES AHX KTHCS AHX PHA THE SEA TS SOTLTHC HOT AHX PHETHEI NTCS HALE PTHCS SOT PATT A STT THE OASTEIS EITEX SEFOIE PE HAVE OOI EHAT FOI SOME OF OS AIE OOT OF SIEATH AHX ALL OF OS AIE FAT HO HOIIA SATX THE EAINEHTEI THEA THAHKEX HTM MOEH FOI THAT”

**Replace E by C and O by U:**

“THE TTME HAS COME THE PALIUS SATX TO TALK OF MAHA THTHCS OF SHOES AHX SHTNS AHX SEALTHC PAQ OF CASSACES AHX KTHCS AHX PHA THE SEA TS SOTLTHC HOT AHX PHETHEI NTCS HALE PTHCS SUT PATT A STT THE OASTEIS CITEX SEFOIE PE HAVE OUI CHAT FOI SOME OF US AIE OUT OF SIEATH AHX ALL OF US AIE FAT HO HUIIA SATX THE EAINEHTEI THEA THAHKEX HTM MUCH FOI THAT”

**Replace T by I and I by R and S by B and C by G:**

“THE TIME HAS COME THE PALIUS SAIX TO TALK OF MAHA THIHGS OF SHOES AHX SHINS AHX SEALIHG PAQ OF CABBAGES AHX KIHGS AHX PHA THE SEA IS BOILIHG HOT AHX PHETHER NIGS HAVE PIHGS BUT PAIT A BIT THE OASTERS CRIEX BEFORE PE HAVE OUR CHAT FOR SOME OF US ARE OUT OF BREATH AHX ALL OF US ARE FAT HO HURRA SAIX THE EAINEHTER THEA THAHKEX HIM MUCH FOR THAT”

Decrypted form:

“The time has come the walrus said to talk of many things of shoes and ships and sealing wax of cabbages and kings and why the sea is boiling hot and whether pig have wings but wait a bit the oysters cried before we have our chat carpenter they thanked him so much for that”