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Special Notes to Instructor (Click or tap here to enter text.)

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1. Original: -
i may run and hide. when you're screamin' my name, alright.
but let me tell you now. there are prices to fame, alright.
all of our time spent in flashes of light. all you people can't
you see, can't you see. how your love's affecting our reality.
every time we're down. you can make it right. and that makes you
larger than life. looking at the crowd. and i see your body
sway, c'mon. wishin' i could thank you in a different way, c'mon
'cause all of your time spent keeps us alive. all you people
can't you see, can't you see. how your love's affecting our
reality. every time we're down. you can make it right. and that
makes you larger than life. all of your time spent keeps us
alive. all you people can't you see, can't you see. how your
love's affecting our reality. every time we're down. you can
make it right. and that makes you larger than life. yeah, every
time we're down. yeah, you can make it right. yeah, and that's
what makes you larger than life. all you people can't you see,
can't you see. how your love's affecting our reality. every time
we're down. you can make it right. and that makes you larger.
that makes you larger. that makes you larger than life.

Compressed: -

i may run &hide. when you're screamin' my name, alright.but let
me tell !now. there are prices to fame, al1%of 8@spent in
flashes of light. %!+*!2, *!2. how 67$8=(@5)!can # it 1&4#s !_39
looking at the crowd. &i 2 6body sway, c'mon. wishin' i could
thank !in a different way, c'mon 'cause %of 6@spent keeps us
alive. %!+*!2, *!2. how 67$8=(@5)!can # it 1&4#s !_39 %of
6@spent keeps us alive. %!+*!2, *!2. how 67$8=(@5)!can # it
1&4#s !_39 0(@5)0!can # it 10&that's what #s !_39 %!+*!2, *!2.
how 67$8=(@5)!can # it 1&4#s !_ 4#s !_ 4#s !_39

2.				
token	replace character string	Length	*n*	Savings: Length × n – 1 - Length – n
!	you	4	26	73	
@	time	5	8	26	
#	make	4	12	31	
$	affecting	10	4	25	
%	all	4	7	16	
&	and	4	7	16	
*	can't	6	8	33	
(	every	6	5	18	
)	down.	6	5	18	
_	larger	7	9	46	
+	people	7	4	16	
=	reality.	9	4	22	
1	right.	7	5	22	
2	see	3	9	14	
3	than	5	5	14	
4	that	5	6	18	
5	we're	6	5	18	
6	your	5	7	22	
7	love's	7	4	16	
8	our	4	5	10	
9	life.	5	5	14	
0	yeah,	6	3	8	
Total original Characters (with spaces) count from Word doc	449			
Total dictionary and compressed text Characters (with	350			

spaces)				
Difference in totals	99		496	Total characters saved from above calcs
original and saved	78%		110%	

3.Dictionary: -
a affecting affecting affecting affecting alive. alive. all all all all all all all alright. alright. and and and and and and and are

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you're
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Compressed: -
i may run &hide. when you're screamin' my name, alright.but let
me tell !now. there are prices to fame, al1%of 8@spent in
flashes of light. %!+*!2, *!2. how 67$8=(@5)!can # it 1&4#s !_39
looking at the crowd. &i 2 6body sway, c'mon. wishin' i could
thank !in a different way, c'mon 'cause %of 6@spent keeps us
alive. %!+*!2, *!2. how 67$8=(@5)!can # it 1&4#s !_39 %of
6@spent keeps us alive. %!+*!2, *!2. how 67$8=(@5)!can # it
1&4#s !_39 0(@5)0!can # it 10&that's what #s !_39 %!+*!2, *!2.
how 67$8=(@5)!can # it 1&4#s !_ 4#s !_ 4#s !_39

4. Decompressed: -
i may run and hide. when you're screamin' my name, alright. but
let me tell you now. there are prices to fame, alright. all of
our time spent in flashes of light. all you people can't you
see, can't you see. how your love's affecting our reality. every
time we're down. you can make it right. and that makes you
larger than life. looking at the crowd. and i see your body
sway, c'mon. wishin' i could thank you in a different way, c'mon
'cause all of your time spent keeps us alive. all you people
can't you see, can't you see. how your love's affecting our
reality. every time we're down. you can make it right. and that
makes you larger than life. all of your time spent keeps us
alive. all you people can't you see, can't you see. how your
love's affecting our reality. every time we're down. you can
make it right. and that makes you larger than life. yeah, every
time we're down. yeah, you can make it right. yeah, and that's
what makes you larger than life. all you people can't you see,
can't you see. how your love's affecting our reality. every time
we're down. you can make it right. and that makes you larger
than makes you larger that makes you larger than life.

5. None. After the decompression all the word come to its original state.

6.

Name	Type	Compressed size	Password pr...	Size	Ratio	Date modified
CP4P_Compression_Activity_calculator	Microsoft Excel Worksheet	20 KB	No	25 KB	22%	5/25/2023 10:23 PM
CP4P_Compression_Activity_calculator	Adobe Acrobat Document	74 KB	No	87 KB	15%	1/24/2024 10:15 AM
CP4P_Compression_Activity_calculator	Microsoft Excel 97-2003 Worksheet	14 KB	No	57 KB	76%	1/24/2024 10:14 AM
CP4P_CompressionBackup_Activity_Answers	Microsoft Word Document	29 KB	No	33 KB	13%	5/25/2023 10:23 PM
CP4P_CompressionBackup_Activity_Instructions	Microsoft Word Document	195 KB	No	216 KB	10%	5/25/2023 10:23 PM
CP4P_CompressionBackup_Activity_Instructions	Microsoft Word 97 - 2003 Document	280 KB	No	376 KB	26%	1/24/2024 10:17 AM
CP4P_CompressionBackup_Activity_Instructions	Adobe Acrobat Document	457 KB	No	489 KB	7%	1/24/2024 10:13 AM
parrot	BMP File	1,364 KB	No	1,801 KB	25%	5/25/2023 10:23 PM
parrot	GIF File	294 KB	No	294 KB	0%	5/25/2023 10:23 PM
parrot	JPG File	143 KB	No	150 KB	5%	5/25/2023 10:23 PM
Plain Text for Compression Test	Text Document	2 KB	No	3 KB	50%	5/25/2023 10:23 PM

7. Its GIF file(parrot) with the lowest compressed ratio of 0%. The reason behind this is GIF files is lossless.

8. It's the CP4P_Compression_Activity_calculator.xls with the highest compressed ratio of 76%. Huffman coding is a compression algorithm that can make an XLS file smaller by using two techniques: finding and replacing repeated patterns and using shorter codes for common data.

9.
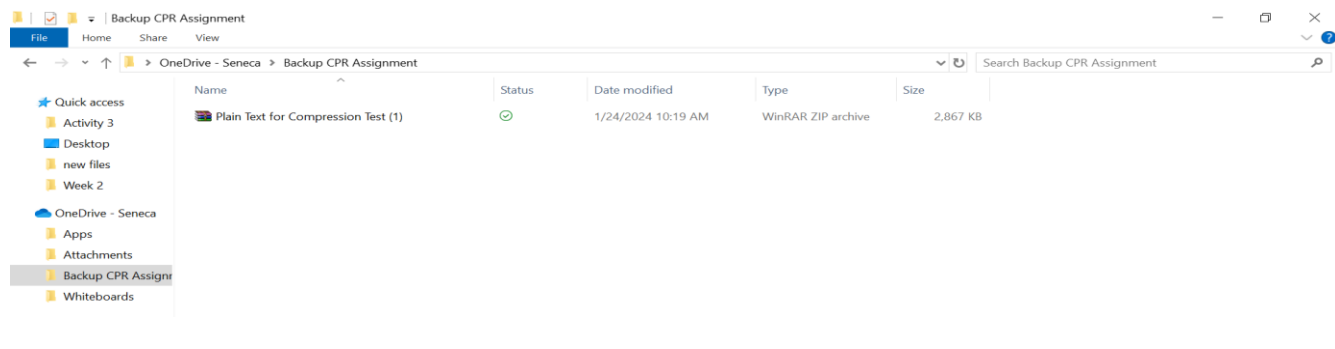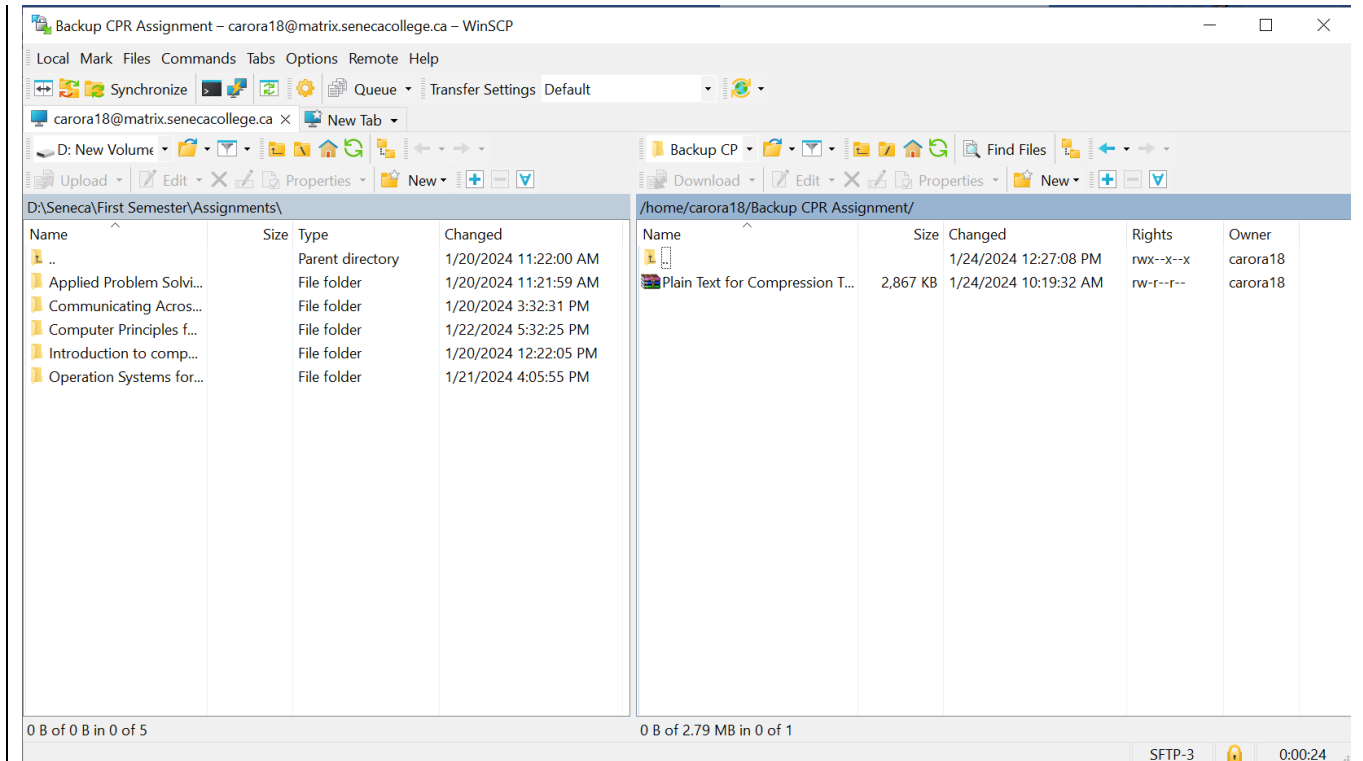
10.
My backup routine is-
1)I have a plan that says when, what, I will backup my data and
what to do if I need to restore it.
2)I check and improve my backup regularly.
3)I try my backup in a different place and make sure it works
and has everything I need.
4) I use could software (such as OneDrive) to make my backup
easier, faster, more accurate, and more consistent. They can do
things like remove duplicates, secure, shrink, or sync my data.
5)I use different ways to backup and restore my data, such as
having more backups, copying backups to different places(such as
pendrive, external hard disk), switching backups when one fails,
or sharing backups among different devices.

11.
I do to follow the 3-2-1 backup:
1)I have three copies of my data: the original one, and two more
copies that I backup. This helps me keep my data safe from

different kinds of problems, such as broken devices, natural
disasters, or cyberattacks.
2)I keep two backup copies of my data on different kinds of
storage: one on a cloud storage such as OneDrive and one on a
hard drive that I can plug in and out. This helps me avoid any
trouble that might happen to one kind of storage.
3)I keep one backup copy on the internet in OneDrive: I use an
online backup service that is always available, reliable,
secure, and big. This helps me make sure that I don't lose my
data if something bad happens to where I keep my data.

12. My restore/recovery strategy would depend on the type and
extent of the damage to my original device and the availability
and compatibility of a new device. I would follow these steps:
1)I would try to repair or recover my original device if
possible, using the built-in or third-party tools, such as
Startup Repair, System Restore, or Data Recovery Software such
stellar data recovery.
2)I would try to restore my entire system or selected files from
my backup drive or cloud service, using the tools such as Backup
and Restore, OneDrive, or Data Recovery Software.
3)I would try to sync or transfer my files from my backup drive
or cloud service to my new device.
4)I would try to reinstall or update my applications and
settings on my new device.

13. Actually, the time required for data recovery and backup
depends on various factors, such as the size of the data, the
type of the backup, the speed of the internet connection, and
the severity of the damage to the original device. Most data
recovery can be finished within 2-5 days, but it may take longer
if there are serious failures on the hard drive.
    If I have a big assignment due tomorrow, I may not have
enough time to recover and backup my data using the traditional
methods. I will consider some alternatives, such as:

1)Using a direct-to-cloud, cloud-to-cloud, or SaaS backup service that can copy your files from one cloud to another without the need for a local device. This can save my time and storage space, but there is need to pay for the cloud service and ensure that your data is secure.
2)Using a data recovery software that can scan and recover my lost or deleted files from my hard drive or other storage devices. This can help me to retrieve my important files, but it needs to be careful about the quality and compatibility of the software and avoid further damage to data.