Patel vrundaben Vijaykumar158605220 vvpatel20@mySeneca.ca  
Click or tap here to enter text.

1. georgia, wrap me up in all your   
i want you in my arms   
oh, let me hold you   
i'll never let you go again like i did   
oh, i used to say

i would never fall in love again until i found her   
i said, "i would never fall unless it's you i fall into"   
i was lost within the darkness, but then i found her   
i found you

georgia pulled me in , i asked to   
love her once again

*(By Stephen Sanchez, 2022)*

2.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Total original Characters (with spaces) count from Word doc | 391 |  |  |  |  |
| Total dictionary and compressed text Characters (with spaces) | 317 |  |  |  |  |
| Difference in totals | 74 |  | 46 | Total characters saved from above calcs | |
| original and saved | 81% |  | 12% |  |  |

3.

|  |  |
| --- | --- |
| #i  $you  %never  \*me  &in  @found  ?her  ~, | Dictionary |
| georgia~wrap \*up &all your  #want $&my arms  oh~let \*hold $ i'll %let $go again like #did  oh~#used to say  #would %fall &love again until #@? #said~"#would %fall unless it's $#fall into"  #was lost within the darkness~but then #@? #@$  georgia pulled \*&~#asked to  love ?once again | Compressed text |

4. georgia, wrap me up in all your   
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georgia pulled me in , i asked to   
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5. All the characters needs to be treated specifically if it is in uppercase or lower case. Also we need to be sure about the space character in the compression dictionary whether it is there or not.

6.

A screenshot of a computer

Description automatically generated

7.  
The file “parrot.GIF” was compressed the least to 0% ratio meaning no space saved at all and it is stored as a lossless file because its data represents as image and also, when the lossless file is being converted, its data or information stays the same as previous hence there is no data loss of the image quality as well as when the file is being decompressed, the original file and decompressed file will be identical. But if the file was to be compressed to a particular higher ratio then it would be stored as a lossy file hence it would have might resulted into the reduction of resolution of the image quality during the transformation.

8.The file “CP4P\_Compression\_Activity\_Calculator.microsoft excel 97-2003 worksheet” was compressed the highest to the ratio of 76% meaning that much of space is being saved and most compression was being done. The Excel file is compressed the most than other files because it may have contained text-type data such as comments, headers, cells, instructions, formulas, and numerical data. Compression algorithms use all this data, which reduces the number of bytes and amount of memory required to store the file and thus reduces the file size.

9.  
A screenshot of a computer

Description automatically generated

10.  
My routine backup is twice a week, first on Wednesday and second on Saturday, but I believe that backup should be carried out every day because it is important to keep our latest data up-to-date. I ensure that my backup is current by, first, performing my regular backups on specific days to ensure that all data is up-to-date. Second, I do backups in different geographical locations to help me keep copies of one file in many different locations, so if there is a hardware failure, I can access the data stored in the cloud online and offline through a USB drive if I don't have internet or any network connections and easily restore it from other devices from anywhere. Thirdly, I verify the backup once every two weeks and try to restore it on a device to check if the data is accurate and working or not.

11. The 3-2-1 backup rule states that one should have three copies of a file: two stored in different geographical locations and one stored or available offline. My backup routine addresses the three characteristics of a real backup and fulfils the 3-2-1 backup checklist because, firstly, I always ensure that my backup takes place on time on specific days, and I make sure that I have copied the file in different folders and have at least three copies of it. Second, I take backups in different geographical locations, one on my Microsoft OneDrive and another on my USB drive, and the original data file is available on my local computer. Thirdly, I can access my files from anywhere offline by plugging in my USB drive on any device in case I don't have a network connection but have my USB drive with me.

12. If one day I don't have a laptop due to a hardware failure or maybe any other reason, but I still have my backup and need to access and work with my current backup file, then I would first need another laptop, computer, or system. Second, I would need a network connection to access the backup data of my work online, or else I would need a USB drive to access my work offline. Thirdly, I would need to install Microsoft OneDrive on the new device and try to login to my account to retrieve my backed-up files and access them. Fourth, I will restore my files from the one drive or USB drive to the new laptop, and I will try to verify the restored file and check if there is an error or if it is working as before or not and has the same data as the original data. Finally, if my restored working files are working properly, then I can continue to access and work with my current file on the new device.

13.  
If I have lost the work or can't access it and I have my assignment due tomorrow, but I still have my backed-up data, I would just take the backup to the new laptop. But the time to restore files may depend on the size of the file to be restored from the backed-up data and the network speed that I am connected to. I think restoring the assignment work to the new laptop would not take long, as firstly, after losing access to my work, which has a size of 1 GB (gigabyte), I would get a new laptop, connect it to a high-speed network of more than 25 Mbps, and try to restore it online from the Microsoft One Drive, and this will approximately take 344seconds or 5–6 minutes. Also, if I am to access the work offline, I will just plug in my USB drive to the new device immediately, and I can just restore the backed up-files on the new device. This does not even take more than a minute.