```
In [ ]: from google.colab import files
         uploaded = files.upload()
         Choose Files No file chosen
         Upload widget is only available when the cell has been executed in the current browser session. Please
         rerun this cell to enable.
         Saving patent.png to patent.png
         with open("/content/mee.txt", "w") as f:
In [ ]:
           f.write("hello")
In [ ]: #open and read a file
         f=open("/content/filenw1.txt","w")
In [ ]: f=open("/content/filenw1.txt","w")
In [ ]: | #We don't need to explicitly call the close() method. It is done inter
         nally.
         with open("/content/f1.txt", "w") as f:
           f.write("hello")
In [ ]: #writing data to file
         f=open("/content/f2.txt","w")
         f.write("this is a new message written to file")
         f.close()
In [ ]: |#read and write to a same file
         f=open("/content/f1.txt", "r+")
         f.read()
         f.write("hello")
         f.seek(0)
         print(f.read())
         f.close()
```

hi..welcome to file processinghello

```
In [ ]: | #Count the total number of upper case, lower case, and digits used in
         the text file
        with open("f1.txt", "r") as f1:
            data=f1.read()
            cnt ucase =0
            cnt_lcase=0
            cnt_digits=0
            for ch in data:
                if ch.islower():
                     cnt_lcase+=1
                if ch.isupper():
                    cnt_ucase+=1
                if ch.isdigit():
                    cnt_digits+=1
            print("Total Number of Upper Case letters are:",cnt_ucase)
            print("Total Number of Lower Case letters are:",cnt_lcase)
        Total Number of Upper Case letters are: 0
        Total Number of Lower Case letters are: 5
In [ ]: |#f.read() will read all content
        with open("book.txt","r") as f1:
            data=f1.read()
            print (data)
        reading and writing files, programs can exchange information with each
        other and generate printable formats like PDF.
        Working with files is a lot like working with books. To use a book, you
        have to open it. When you're done,
        you have to close it. While the book is open, you can either write in i
        t or read from it. In either case, you know where you are in the book.
        Most of the time, you read the whole book in its natural order, but you
        can also skip around.
        All of this applies to files as well.
In [ ]: #f.readlines() will read all lines into a list
        with open("/content/book.txt" , "r") as f1:
         data1=f1.readline(1)
         print(data1)
        FileNotFoundError
                                                   Traceback (most recent call 1
        ast)
        <ipython-input-2-545561afae8f> in <module>()
              1 #f.readlines() will read all lines into a list
        ----> 2 with open("/content/book.txt" , "r") as f1:
              3 data1=f1.readline(1)
```

FileNotFoundError: [Errno 2] No such file or directory: '/content/book.
txt'

4 print(data1)

5

```
In [ ]: from google.colab import files
uploaded = files.upload()
```

Choose Files | No file chosen

Upload widget is only available when the cell has been executed in the current browser session. Please rerun this cell to enable.

Saving f1.txt to f1 (2).txt

```
In [ ]: #f.readline() will read
#one line from file
with open("f1.txt","r") as f1:
    data=f1.readline()
    print (data)
```

hi..welcome to file processing

```
In [ ]: # program to count a total number of lines and
        #count the total number of lines starting with 'A', 'B', and
        #'C'
        with open("f2.txt", "r") as f1:
            data=f1.readlines()
            cnt_lines=0
            cnt_A=0
            cnt_B=0
            cnt_C=0
            for lines in data:
                cnt_lines+=1
                if lines[0]=='A':
                    cnt_A+=1
                if lines[0]=='B':
                    cnt_B+=1
                if lines[0]=='C':
                    cnt_C+=1
            print("Total Number of lines are:",cnt_lines)
            print("Total Number of lines strating with A are:",cnt_A)
            print("Total Number of lines strating with B are:",cnt_B)
            print("Total Number of lines strating with C are:",cnt_C)
```

```
Total Number of lines are: 3
Total Number of lines strating with A are: 0
Total Number of lines strating with B are: 0
Total Number of lines strating with C are: 0
```

```
In [ ]: |#word search in python
        cnt = 0
         word_search = input("Enter the words to search:")
         with open("book.txt","r") as f1:
           data=f1.read()
           words = data.split()
           for word in words:
             if (word == word_search):
               cnt+=1
         print(word_search, "found ", cnt, " times from the file")
        Enter the words to search:hello
        hello found 0 times from the file
In [ ]: #Replace all spaces from text with * (asterisk).
         cnt = 0
        with open("f2.txt", "r") as f1:
             data = f1.read()
             data=data.replace(' ','*')
         with open("merge.txt","w") as f1:
             f1.write(data)
In [ ]: | from google.colab import files
         uploaded = files.upload()
         Choose Files No file chosen
         Upload widget is only available when the cell has been executed in the current browser session. Please
        rerun this cell to enable.
        Saving f1.txt to f1 (2).txt
In [ ]: #read function
         f=open('book.txt','r')
         c=f.read(4)
         print('first 4 characters')
         print(c)
         c=f.read(4)
         print('next 4 characters')
         print(c)
         print('read the remaining contents')
         c=f.read()
         print(c)
         f.close()
        first 4 characters
        next 4 characters
        read the remaining contents
```

```
In [ ]: |f=open('book.txt','r')
        for 1 in f:
             print(1, end=' ')
        FileNotFoundError
                                                   Traceback (most recent call 1
        ast)
        <ipython-input-3-afb547fa62bf> in <module>()
        ----> 1 f=open('book.txt','r')
              2 for 1 in f:
                     print(l,end=' ')
        FileNotFoundError: [Errno 2] No such file or directory: 'book.txt'
In [ ]: #Write a program to read the contents of
        # both the files created in the above programs and
         #merge the contents into "merge.txt". Avoid using the close() functio
        n to close the files.
        with open("book.txt","r") as f1:
            data=f1.read()
        with open("/content/f1.txt", "r") as f2:
            data1=f2.read()
        with open("merge.txt", "w") as f3:
            f3.write(data)
            f3.write(data1)
In [ ]: f=open('book.txt','r')
        for 1 in f:
             print(1, end='')
        reading and writing files, programs can exchange information with each
        other and generate printable formats like PDF.
        Working with files is a lot like working with books. To use a book, you
        have to open it. When you're done,
        you have to close it. While the book is open, you can either write in i
        t or read from it. In either case, you know where you are in the book.
        Most of the time, you read the whole book in its natural order, but you
        can also skip around.
        All of this applies to files as well.
In [ ]: |#writing numbers to file
        f=open("num.txt","w")
        for i in range(1,11):
            f.write(str(i)+"\n")
        f.close()
```

```
In [ ]: |#To insert 10 numbers to a file and display their sum
        f=open("num.txt","w")
        for i in range(1,11):
            f.write(str(i)+"\n")
        f.close()
        f = open("num.txt", 'r')
        for line in f:
         number1 = int(line)
         theSum1 += number1
        print("The sum is", theSum1)
        1
        2
        3
        4
        5
        6
        7
        8
        9
        10
        The sum is 55
In [ ]: | 0#seek and tell mode
        f=open('test.txt','w+')
        f.write('this is the new content')
        f.seek(0)
        str=f.read()
        print(str)
        f.seek(3)
        print(f.tell())
        str2=f.read()
        print(str2)
        f.close()
        this is the new content
        3
        23
        s is the new content
```

```
In [ ]: #binary files
    f = open('/content/pexels-pixabay-45201.jpg', 'rb')
    print(list(f.read(20000)))
    f.close()
```

[255, 216, 255, 224, 0, 16, 74, 70, 73, 70, 0, 1, 1, 1, 0, 72, 0, 72, 0, 0, 255, 226, 12, 88, 73, 67, 67, 95, 80, 82, 79, 70, 73, 76, 69, 1, 1, 0, 0, 12, 72, 76, 105, 110, 111, 2, 16, 0, 0, 109, 110, 116, 114, 82, 71, 66, 32, 88, 89, 90, 32, 7, 206, 0, 2, 0, 9, 0, 6, 0, 49, 0, 0, 97, 99, 115, 112, 77, 83, 70, 84, 0, 0, 0, 0, 73, 69, 67, 32, 115, 82, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 17, 99, 112, 114, 116, 0, 0, 1, 80, 0, 0, 0, 51, 100, 101, 115, 99, 0, 0, 1, 132, 0, 0, 0, 108, 119, 116, 112, 11 6, 0, 0, 1, 240, 0, 0, 0, 20, 98, 107, 112, 116, 0, 0, 2, 4, 0, 0, 0, 2 0, 114, 88, 89, 90, 0, 0, 2, 24, 0, 0, 0, 20, 103, 88, 89, 90, 0, 0, 2, 44, 0, 0, 0, 20, 98, 88, 89, 90, 0, 0, 2, 64, 0, 0, 0, 20, 100, 109, 11 0, 100, 0, 0, 2, 84, 0, 0, 0, 112, 100, 109, 100, 100, 0, 0, 2, 196, 0, 0, 0, 136, 118, 117, 101, 100, 0, 0, 3, 76, 0, 0, 0, 134, 118, 105, 10 1, 119, 0, 0, 3, 212, 0, 0, 0, 36, 108, 117, 109, 105, 0, 0, 3, 248, 0, 0, 0, 20, 109, 101, 97, 115, 0, 0, 4, 12, 0, 0, 0, 36, 116, 101, 99, 10 4, 0, 0, 4, 48, 0, 0, 0, 12, 114, 84, 82, 67, 0, 0, 4, 60, 0, 0, 8, 12, 103, 84, 82, 67, 0, 0, 4, 60, 0, 0, 8, 12, 98, 84, 82, 67, 0, 0, 4, 60, 0, 0, 8, 12, 116, 101, 120, 116, 0, 0, 0, 0, 67, 111, 112, 121, 114, 10 5, 103, 104, 116, 32, 40, 99, 41, 32, 49, 57, 57, 56, 32, 72, 101, 119, 108, 101, 116, 116, 45, 80, 97, 99, 107, 97, 114, 100, 32, 67, 111, 10 9, 112, 97, 110, 121, 0, 0, 100, 101, 115, 99, 0, 0, 0, 0, 0, 0, 0, 18, 115, 82, 71, 66, 32, 73, 69, 67, 54, 49, 57, 54, 54, 45, 50, 46, 49, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 18, 115, 82, 71, 66, 32, 73, 69, 67, 54, 49, 57, 54, 54, 45, 50, 46, 49, 0, 88, 89, 90, 32, 0, 0, 0, 0, 0, 0, 243, 81, 0, 1, 0, 0, 0, 1, 22, 204, 88, 89, 90, 32, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 88, 89, 90, 32, 0, 0, 0, 0, 0, 111, 162, 0, 0, 56, 245, 0, 0, 3, 144, 88, 89, 90, 32, 0, 0, 0, 0, 0, 0, 98, 153, 0, 0, 183, 133, 0, 0, 24, 218, 88, 89, 90, 32, 0, 0, 0, 0, 0, 0, 3 6, 160, 0, 0, 15, 132, 0, 0, 182, 207, 100, 101, 115, 99, 0, 0, 0, 0, 0, 0, 0, 22, 73, 69, 67, 32, 104, 116, 116, 112, 58, 47, 47, 119, 119, 119, 46, 105, 101, 99, 46, 99, 104, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 2 2, 73, 69, 67, 32, 104, 116, 116, 112, 58, 47, 47, 119, 119, 119, 46, 1 0, 0, 0, 0, 0, 0, 100, 101, 115, 99, 0, 0, 0, 0, 0, 0, 0, 46, 73, 6 9, 67, 32, 54, 49, 57, 54, 54, 45, 50, 46, 49, 32, 68, 101, 102, 97, 11 7, 108, 116, 32, 82, 71, 66, 32, 99, 111, 108, 111, 117, 114, 32, 115, 112, 97, 99, 101, 32, 45, 32, 115, 82, 71, 66, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 46, 73, 69, 67, 32, 54, 49, 57, 54, 54, 45, 50, 46, 49, 32, 6 8, 101, 102, 97, 117, 108, 116, 32, 82, 71, 66, 32, 99, 111, 108, 111, 117, 114, 32, 115, 112, 97, 99, 101, 32, 45, 32, 115, 82, 71, 66, 0, 0, 15, 99, 0, 0, 0, 0, 0, 0, 44, 82, 101, 102, 101, 114, 101, 110, 99, 101, 32, 86, 105, 101, 119, 105, 110, 103, 32, 67, 111, 110, 100, 105, 116, 105, 111, 110, 32, 105, 110, 32, 73, 69, 67, 54, 49, 57, 54, 54, 4 5, 50, 46, 49, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 44, 82, 101, 102, 101, 114, 101, 110, 99, 101, 32, 86, 105, 101, 119, 105, 110, 103, 32, 67, 11, 110, 100, 105, 116, 105, 111, 110, 32, 105, 110, 32, 73, 69, 67, 5 4, 49, 57, 54, 54, 45, 50, 46, 49, 0, 118, 105, 101, 119, 0, 0, 19, 164, 254, 0, 20, 95, 46, 0, 16, 207, 20, 0, 3, 237, 204, 4, 19, 11, 0, 3, 92, 158, 0, 0, 0, 1, 88, 89, 90, 32, 0, 0, 0, 0, 0, 7 6, 9, 86, 0, 80, 0, 0, 0, 87, 31, 231, 109, 101, 97, 115, 0, 0, 0, 0,

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136, 214, 162, 49, 4, 104, 209, 84, 4, 80, 127, 160, 22, 249, 245, 34, 181, 136, 3, 16, 24, 128, 0, 0, 0, 14, 17, 0, 0, 6, 1 70, 187, 176, 10, 157, 17, 202, 215, 40, 170, 136, 160, 10, 42, 32, 35, 144, 87, 40, 168, 141, 112, 163, 209, 28, 162, 189, 17, 5, 112, 0, 0, 1 68, 29, 7, 57, 85, 85, 207, 124, 139, 79, 77, 251, 99, 237, 127, 102, 2 31, 147, 242, 140, 140, 175, 77, 244, 102, 208, 209, 83, 102, 35, 87, 2 52, 191, 145, 244, 207, 155, 122, 245, 185, 246, 159, 179, 188, 55, 21 7, 124, 251, 223, 243, 241, 38, 99, 171, 61, 155, 23, 123, 65, 46, 174, 175, 93, 81, 103, 7, 214, 60, 126, 124, 91, 142, 125, 177, 16, 116, 25 1, 248, 51, 55, 251, 44, 103, 182, 124, 185, 233, 147, 239, 117, 178, 2 48, 70, 145, 165, 249, 235, 13, 152, 198, 125, 55, 232, 155, 93, 124, 2 7, 127, 41, 235, 127, 207, 65, 117, 154, 235, 33, 222, 61, 177, 237, 18 5, 173, 191, 229, 99, 31, 157, 237, 146, 80, 103, 213, 243, 78, 47, 13 9, 23, 141, 66, 165, 36, 137, 93, 60, 155, 171, 57, 186, 201, 211, 39, 246, 249, 155, 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```
In [ ]: f = open('my_file.mp3', 'w+b')
    file_content = f.read()
    f.write(b'Hello')
    f.close()
```

```
In [ ]:
        from google.colab import files
        uploaded = files.upload()
         Choose Files No file chosen
        Upload widget is only available when the cell has been executed in the current browser session. Please
        rerun this cell to enable.
                                                     Traceback (most recent call 1
        MessageError
        ast)
        <ipython-input-4-21dc3c638f66> in <module>()
               1 from google.colab import files
        ----> 2 uploaded = files.upload()
        /usr/local/lib/python3.7/dist-packages/google/colab/files.py in upload
        ()
                   11 11 11
              44
             45
                   uploaded_files = _upload_files(multiple=True)
        ---> 46
                   # Mapping from original filename to filename as saved locall
             47
        У.
             48
                   local_filenames = dict()
        /usr/local/lib/python3.7/dist-packages/google/colab/files.py in upload
        _files(multiple)
            121
                   result = _output.eval_js(
                       'google.colab._files._uploadFiles("{input_id}", "{output_
            122
        id}")'.format(
                           input_id=input_id, output_id=output_id))
        --> 123
                   files = _collections.defaultdict(_six.binary_type)
            124
            125
        /usr/local/lib/python3.7/dist-packages/google/colab/output/_js.py in ev
        al_js(script, ignore_result, timeout_sec)
             38
                  if ignore_result:
             39
                    return
                   return _message.read_reply_from_input(request_id, timeout_sec
        ---> 40
             41
             42
        /usr/local/lib/python3.7/dist-packages/google/colab/_message.py in read
        _reply_from_input(message_id, timeout_sec)
                         reply.get('colab_msg_id') == message_id):
            104
            105
                       if 'error' in reply:
        --> 106
                         raise MessageError(reply['error'])
                       return reply.get('data', None)
            107
            108
```

MessageError: TypeError: google.colab.\_files is undefined

```
In [ ]: #The following program will copy oldpic.jpeg into newpic.jpeg
f1=open("/content/pexels-pixabay-45201.jpg", "rb")
f2=open("newpirc.jpeg", "wb")
bytesdata=f1.read()
f2.write(bytesdata)
print("New Image is available with the name: newpic.jpg")

New Image is available with the name: newpic.jpg

In [ ]: #word search in python
cnt = 0
word_search = input("Enter the words to search:")
with open("book.txt", "r") as f1:
data=f1.read()
```

print(word\_search, "found ", cnt, " times from the file")

words = data.split()
for word in words:

cnt+=1

if (word == word\_search):