Program 9) WAP to read a file and
(a.) Print the total numbers of characters,words and lines in the file.
(b.) calculate the frequency of each character in the file . Use a variable of dictionary type to maintain the count.
(c.) Print the words in reverse order.
(d.) Copy even lines of the file to a file named "file1" and odd lines to another file "file2".

code =

```python
#f= open("C:\\Users\\RCD.DESKTOP-MVFJ6T2\\Desktop\\rupesh\\file2.txt",'x')
#f= open("C:\\Users\\RCD.DESKTOP-MVFJ6T2\\Desktop\\rupesh\\file2.txt",'w')
#f.write("Hello, my name is Rupesh kumar  \n  my course is b.voc software devlopment.")
#print("data updated")
# f.close()
def filehandling():
    f= open("C:\\Users\\RCD.DESKTOP-MVFJ6T2\\Desktop\\rupesh\\file2.txt",'r')
    data =f.read()
    f.close()

    words = data.split()
    lines=len(data.splitlines())
    print("lines in text file is:",lines)
    print('Number of words in text file :', len(words))
    print("no of character  in text file",len(data))
filehandling()

def freq():
    f= open("C:\\Users\\RCD.DESKTOP-MVFJ6T2\\Desktop\\rupesh\\file2.txt",'r')
    data =f.read()
    f.close()

    d= {}
    for i in data:
       b =data.count(i)
       d[i]=b
    print(d)
freq()

def reverse_words ():
    f= open("C:\\Users\\RCD.DESKTOP-MVFJ6T2\\Desktop\\rupesh\\file2.txt",'r')
    data1 = f.read()
    data2 = data1.split()
    reverse = data2[ ::-1]
    print( "reversed words : "," ".join(reverse))
reverse_words()

def file1_and_file2():
    # f3= open("C:\\Users\\RCD.DESKTOP-MVFJ6T2\\Desktop\\rupesh\\file3.txt",'x')
    #f4= open("C:\\Users\\RCD.DESKTOP-MVFJ6T2\\Desktop\\rupesh\\file4.txt",'x')

    f= open("C:\\Users\\RCD.DESKTOP-MVFJ6T2\\Desktop\\rupesh\\file2.txt",'r')
    f3= open("C:\\Users\\RCD.DESKTOP-MVFJ6T2\\Desktop\\rupesh\\file3.txt",'w')
```

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f4= open("C:\\Users\\RCD.DESKTOP-MVFJ6T2\\Desktop\\rupesh\\file4.txt",'w')
lines = f.readlines()
for i in range(len(lines)):
    if  i%2==0:
        f3.write(lines[i])
else:
    f4.write(lines[i])

f.close()
f3.close()
f4.close()
file5 = open("C:\\Users\\RCD.DESKTOP-MVFJ6T2\\Desktop\\rupesh\\file3.txt",'r')
file6 =open("C:\\Users\\RCD.DESKTOP-MVFJ6T2\\Desktop\\rupesh\\file4.txt",'r')
print("even lines : ",file5.read())
print("odd lines : " ,file6.read())
file5.close()
file6.close()
file1_and_file2()
```

output=

lines in text file is: 2
Number of words in text file : 12
no of character in text file 74
{'H': 1, 'e': 7, 'l': 3, 'o': 5, ',': 1, ' ': 14, 'm': 5, 'y': 2, 'n': 2, 'a': 3, 'i': 2, 's': 5, 'R': 1, 'u': 3, 'p': 2, 'h': 1, 'k': 1, 'r': 3, '\n': 1, 'c': 2, 'b': 1, '.': 2, 'v': 2, 'f': 1, 't': 2, 'w': 1, 'd': 1}
reversed words : devlopment. software b.voc is course my kumar Rupesh is name my Hello,
even lines : Hello, my name is Rupesh kumar

odd lines :   my course is b.voc software devlopment.