config.py

```python
import mysql.connector as mycam2
from fpdf import FPDF
from pdf_mail import sendpdf
from datetime import date
from string import capwords
# ---------------------------------------------------------------------
'''Below EMAIL_ADDRESS and PASSWORD is for sending email(s) to users (constant values)'''

EMAIL_ADDRESS = 'snt.bookshop@gmail.com'
PASSWORD = 'S&T@bookshp@341'

# ---------------------------------------------------------------------
'''This function is defined to send invoice of the order placed by any user
   which will fetch the given PDF INVOICE from the specific path where all invoices generated are saved.
   Module used here is 'pdf_mail' '''

def Pdf_mailing(file_name, address):
    sender_email_address = EMAIL_ADDRESS
    receiver_email_address = f"{address}"
    sender_email_password = PASSWORD
    subject_of_email = "Information of Order Placed on S & T Book Shop"
    body_of_email = "This is an auto generated bill of supply for your ordered book(s). \nIf any error is there, please reply to us " \
                    "on our E-mail Address snt.bookshop@gmail.com." \
                    "Thanks for shopping. :)"
    filename = file_name
    location_of_file = "D:/Swarit/Class 12/Class 12 Computer Project/invoices"
    k = sendpdf(sender_email_address, receiver_email_address,
                sender_email_password,
                subject_of_email,
                body_of_email,
                filename, location_of_file)
    k.email_send()
```

```
'''This function do two works. First, it makes a string sum of ASCII values of the username of the user
   Second it trims the string generated to length of 10 characters, query of the numbers of orders placed
   by the user since registered and store it in another string which is displayed in invoice number field
   of invoice generated on placing order.
   Module used here is 'mysql.connector'. '''

def Inv_no_gen(a):
    cam = mycam2.connect(host='localhost', user='root', passwd='Rinshu@03', database='book_shop')
    cursor = cam.cursor()
    st = ''
    st2 = ''
    for char in a:
        x = ord(char)
        st += str(x)  # String sum of ASCII characters of username passed into function generated in st

    # Underneath 'for' loop is defined to limit the number of characters of the username to 10 so that
    # when invoice number will be displayed in the invoice it doesn't go out of the cell defined for it.
    # This is stored in 'st2'
    if len(st) <= 10:
        st2 += st
    else:
        for i in range(0, 10):
            st2 += st[i]

            # This query is done so as to get the total number of orders placed since the user has registered
    cursor.execute(f"SELECT count(ord_no) FROM orders WHERE user_name = '{a}'")
    ord_count = cursor.fetchone()
    # We are adding the result of the above query to above generated 'st2' and adding 1 to it
    # so that the invoice number generated is unique every time and no invoice gets replaced
    # due to same name
    st2 += f'{ord_count[0] + 1}'
    return st, st2
```

config.py

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69
70  # ---------------------------------------------------------------------
71  '''This function generates PDF invoice with all the details of the user and the
72     book shop and save it on local desktop. User is asked whether he/she wants to get invoice on his/her
73     email-address or not. Invoice will be sent to the user's email address only if the user says 'y'.
74     Invoice name is string sum of all the ASCII values of the characters of username of the user and the last digit
75     will be one more than the number of all orders placed since the user has registered himself/herself.
76     This is done so that the invoice generated last time do not get replaced upon new order placed on local desktop.
77     Modules used here are 'fpdf' and 'mysql.connector'.'''
78
79  def Pdf_generate(ls1, ls2, inv, inv_no):
80      lst_sum = []
81      cam = mycam2.connect(host='localhost', user='root', passwd='Rinshu@03', database='book_shop')
82      cursor = cam.cursor()
83      cursor.execute(f"SELECT count(ord_no) FROM orders WHERE user_name = '{ls1[10]}'")
84      ord_count = cursor.fetchone()
85      pdf = FPDF()
86      pdf.add_page()
87
88      pdf.set_font("Arial", 'B', size=15)
89
90      pdf.cell(130, 5, 'S & T BOOKSHOP', 0, 0, 'L')
91      pdf.cell(60, 5, 'Bill of Supply/ Invoice', 0, 1, 'C')
92
93      pdf.set_font("Arial", '', size=12)
94
95      pdf.cell(130, 5, 'Street Address: K-61/74, Sector 8, Pandeypur', 0, 0, 'L')
96      pdf.cell(60, 5, '', 0, 1, 'L')
97
98      pdf.cell(130, 5, 'Varanasi, India, ZIP-221002', 0, 0, 'L')
99      pdf.cell(25, 5, 'Date: ', 0, 0, 'L')
100     pdf.cell(34, 5, f'{date.today()}', 0, 1, 'L')
```

```
102     pdf.cell(130, 5, 'Phone: (+91)8004125336', 0, 0, 'L')
103     pdf.cell(25, 5, 'Invoice #', 0, 0, 'L')
104     pdf.cell(34, 5, f"{inv_no}", 0, 1, 'L')
105
106     pdf.cell(130, 5, 'Fax: [+ 91 542 14512]', 0, 0, 'L')
107     pdf.cell(25, 5, 'Customer ID', 0, 0, 'L')
108     pdf.cell(34, 5, f'{ls1[8][0]}', 0, 1, 'L')
109
110     pdf.cell(130, 5, 'GSTIN: 22AABCU9603R1ZX', 0, 1, 'L')
111
112     pdf.cell(189, 10, '', 0, 1, 'L')
113
114     pdf.set_font("Arial", 'B', size=15)
115
116     pdf.cell(100, 5, 'Billing Address / Shipping Address: ', 0, 1)
117
118     pdf.set_font('Arial', '', size=12)
119
120     pdf.cell(10, 5, '', 0, 0)
121     pdf.cell(90, 5, f'{ls1[0]}', 0, 1)  # Name
122
123     pdf.cell(10, 5, '', 0, 0)
124     pdf.cell(90, 5, f'{ls1[1]}, {ls1[3]}', 0, 1)  # Address 1
125
126     pdf.cell(10, 5, '', 0, 0)
127     pdf.cell(90, 5, f'{ls1[2]}, {ls1[4]}', 0, 1)  # Address 2
128
129     pdf.cell(10, 5, '', 0, 0)
130     pdf.cell(90, 5, f'{ls1[5]}, {ls1[6]}', 0, 1)  # Pincode
131
132     pdf.cell(10, 5, '', 0, 0)
133     pdf.cell(90, 5, f'Phone: {ls1[7]}', 0, 1)  # Phone
```

```
135     pdf.cell(189, 10, '', 0, 1, 'L')
136
137     pdf.set_font('Arial', 'B', size=12)
138
139     pdf.cell(10, 5, 'S.no', 1, 0, 'C')
140     pdf.cell(100, 5, 'Description', 1, 0, 'C')
141     pdf.cell(25, 5, 'Quantity', 1, 0, 'C')
142     pdf.cell(25, 5, 'Rate', 1, 0, 'C')
143     pdf.cell(30, 5, 'Amount(Rs.)', 1, 1, 'C')
144
145     pdf.set_font('Arial', '', 12)
146
147     # For Loop defined below is to enter the details(quantity, rate, bookname, author's name and amount)
148     # into the invoice (i.e.) one invoice will be generated until an unless user exits the function.
149     # The last provided address and phone will be written in the billing address of thr invoice
150
151     for i in range(len(ls2)):
152         cursor.execute(f"SELECT bookname, pieces FROM orders WHERE ord_no = {ls2[i]}")
153         data = cursor.fetchone()
154         cursor.execute(f"SELECT author_fname, author_lname, price FROM books WHERE title = '{data[0]}'")
155         data2 = cursor.fetchone()
156         pdf.cell(10, 5, f"{i + 1}", 1, 0, 'R')
157         pdf.cell(100, 5, f'{capwords(data[0])} - {capwords(data2[0])} {capwords(data2[1])}', 1, 0, align='L')
158         pdf.cell(25, 5, f'{data[1]}', 1, 0, align='R')
159         pdf.cell(25, 5, f'{data2[2]}', 1, 0, align='R')
160         pdf.cell(30, 5, f'{data[1] * data2[2]}', 1, 1, align='R')
161         lst_sum.append(data[1] * data2[2])
162     # Here total of all the books ordered will be calculated
163     total = 0
164     for num in lst_sum:
165         total += num
166
```

```
166
167         pdf.cell(10, 5, '', 0, 0)
168         pdf.cell(100, 5, '', 0, 0)
169         pdf.cell(25, 5, '', 0, 0)
170
171         pdf.set_font('Arial', 'B', size=12)
172
173         pdf.cell(25, 5, 'Total', 1, 0, 'C')
174
175         pdf.set_font('Arial', 'B', size=12)
176         # Total calculated above will be displayed here
177         pdf.cell(30, 5, f'{total}', 1, 1, 'R')
178
179         file_n = f"invoice{inv}{ord_count[0] + 1} "
180         path = f"D:/Swarit/Class 12/Class 12 Computer Project/invoices/{file_n}.pdf"
181         pdf.output(f"{path}")  # Invoice generated and saved to local desktop
182
183         choice = str(input("    Do you want the invoice to be sent to your email address? (y/n): ")).lower()
184         if choice in ['y', 'yes']:
185             Pdf_mailing(file_n, address=ls1[9])
186             print(f"An email has been sent to you with an invoice to your email address {ls1[9]}")
187         else:
188             pass
189 # ------------------------------------------------------------------------------------------
190  # |                                    End of Module                                     |
191 # ------------------------------------------------------------------------------------------
192
```