VisaAPP.py > ...

```python
countries = [
    "Afghanistan", "Albania", "Algeria", "Andorra", "Angola", "Antigua and Barbuda", "Argentina", "Armenia",
    "Australia", "Austria", "Azerbaijan", "Bahamas", "Bahrain", "Bangladesh", "Barbados", "Belarus", "Belgium",
    "Belize", "Benin", "Bhutan", "Bolivia", "Bosnia and Herzegovina", "Botswana", "Brazil", "Brunei",
    "Bulgaria", "Burkina Faso", "Burundi", "Cabo Verde", "Cambodia", "Cameroon", "Canada", "Central African Republic",
    "Chad", "Chile", "China", "Colombia", "Comoros", "Congo, Democratic Republic of the", "Congo, Republic of the",
    "Costa Rica", "Croatia", "Cuba", "Cyprus", "Czech Republic", "Denmark", "Djibouti", "Dominica", "Dominican Republic",
    "Ecuador", "Egypt", "El Salvador", "Equatorial Guinea", "Eritrea", "Estonia", "Eswatini", "Ethiopia", "Fiji",
    "Finland", "France", "Gabon", "Gambia", "Georgia", "Germany", "Ghana", "Greece", "Grenada", "Guatemala",
    "Guinea", "Guinea-Bissau", "Guyana", "Haiti", "Honduras", "Hungary", "Iceland", "Indonesia", "Iran",
    "Iraq", "Ireland", "Israel", "Italy", "Jamaica", "Japan", "Jordan", "Kazakhstan", "Kenya", "Kiribati",
    "Korea, North", "Korea, South", "Kosovo", "Kuwait", "Kyrgyzstan", "Laos", "Latvia", "Lebanon", "Lesotho",
    "Liberia", "Libya", "Liechtenstein", "Lithuania", "Luxembourg", "Madagascar", "Malawi", "Malaysia", "Maldives",
    "Mali", "Malta", "Marshall Islands", "Mauritania", "Mauritius", "Mexico", "Micronesia", "Moldova", "Monaco",
    "Mongolia", "Montenegro", "Morocco", "Mozambique", "Myanmar", "Namibia", "Nauru", "Nepal", "Netherlands",
    "New Zealand", "Nicaragua", "Niger", "Nigeria", "North Macedonia", "Norway", "Oman", "Pakistan", "Palau",
    "Palestine", "Panama", "Papua New Guinea", "Paraguay", "Peru", "Philippines", "Poland", "Portugal", "Qatar",
    "Romania", "Russia", "Rwanda", "Saint Kitts and Nevis", "Saint Lucia", "Saint Vincent and the Grenadines",
    "Samoa", "San Marino", "Sao Tome and Principe", "Saudi Arabia", "Senegal", "Serbia", "Seychelles", "Sierra Leone",
    "Singapore", "Slovakia", "Slovenia", "Solomon Islands", "Somalia", "South Africa", "South Sudan", "Spain",
    "Sri Lanka", "Sudan", "Suriname", "Sweden", "Switzerland", "Syria", "Taiwan", "Tajikistan", "Tanzania",
    "Thailand", "Timor-Leste", "Togo", "Tonga", "Trinidad and Tobago", "Tunisia", "Turkey", "Turkmenistan",
    "Tuvalu", "Uganda", "Ukraine", "United Arab Emirates", "United Kingdom", "United States", "Uruguay",
    "Uzbekistan", "Vanuatu", "Vatican City", "Venezuela", "Vietnam", "Yemen", "Zambia", "Zimbabwe"
]
#E-VISA PORTAL HEADER
class headertxt:
    def __init__(self, size, txt):
        self.size = size #only odd values
        self.txt = txt
        txt_l = len(self.txt)
        if txt_l%2 == 0:
            self.txt += " "
            txt_l = len(self.txt)
        self.spaces = int((size - txt_l)/2)

txt = headertxt(121, "INDIAN E-VISA PORTAL")
#Text Editor
class text:
    def __init__(s, text):
        s.text = text
        s.text_l = len(text)
    def printss1(s): #FOR HEADERS
        print("|" + " "*txt.size + "|")
        print("|" + s.text.title() + " "*(txt.size - s.text_l)  + "|")
    def printss2(s): #FOR SUBHEADERS
        print("|" + " "*txt.size + "|")
        print("|" + " "*txt.size + "|")
        print("|" + s.text.title() + " "*(txt.size - s.text_l)  + "|")
    def printss3(s): #FOR SUB-SUB HEADERS
```

VisaAPP.py > ...

```
class text:
    def printss3(s): #FOR SUB-SUB HEADERS
        print("|" + " "*txt.size + "|")
        print("|" + " "*txt.size + "|")
        print("|" + " "*txt.size + "|")
        print("|" + " "*txt.size + "|")
        print("|" + s.text+ " "*(txt.size - s.text_l)  + "|")
    def printss4(s): #FOR QUERIES OPTIONS
        print("|" + " "*txt.size + "|")
        print("|     " + s.text+ " "*(txt.size - s.text_l - 5)  + "|")
    def printsnl(s): #FOR INPUT Left aligned Numeric
        print("|" + " "*txt.size + "|")
        print("   " + s.text, end ="")
        i = int(input(""))
        return i
    def printssl(s): #FOR INPUT Left aligned Alphabetic
        print("|" + " "*txt.size + "|")
        print("   " + s.text, end ="")
        i = input("").title().rstrip().lstrip()
        return i
    def printssy_n(s): #FOR INPUT YES OR NO
        i = -1
        while i != "Y" and i != "N":
            print("|" + " "*txt.size + "|")
            print("|     " + "Yes -> Enter Y"+ " "*(txt.size - len("Yes -> Enter Y") - 5)  + "|")
            print("|" + " "*txt.size + "|")
            print("|     " + "No -> Enter N"+ " "*(txt.size - len("No -> Enter N")- 5)  + "|")
            print("|" + " "*txt.size + "|")
            print("   " + s.text, end ="")
            i = input("").title().rstrip().lstrip()
        return i
def visaAPP():
    user = list()
    choice = 0

    ptypes = ["1. Ordinary Passport", "2. Official Passport", "3. Diplomatic Passport","4. Service Passport", "5. Special Passport"]
    for i in ptypes:
        text1 = text(i)
        text1.printss4()
    while choice not in range(1,6):
        text1 = text("Choose passport type number: ")
        choice = text1.printsnl()
    user.append(ptypes[choice-1][3:])
    choice = 0
    while choice not in countries:
        text1 = text("Enter your Nationality: ")
        choice = text1.printssl().title()
        print(choice)
        if choice == "India":
            print("Visa not required")
```

VisaAPP.py > ...

```
80  def visaAPP():
97          if choice == "India":
98              print("Visa not required")
99          elif choice not in countries:
100             print("Country not found")
101
102
103 user.append(choice)
104     text1 = text("Enter your Port of arrival: ")
105     choice = text1.printss1()
106     user.append(choice)
107
108     text1 = text("Enter your Port of exit: ")
109     choice = text1.printss1()
110     user.append(choice)
111
112     text1 = text("Enter your Date of Birth(DD/MM/YYYY): ")
113     choice = text1.printss1()
114     user.append(choice[-4:] + "/" + choice[3:5] + "/" + choice[0:2])
115
116     text1 = text("Enter your Email ID: ")
117     choice = text1.printss1()
118     user.append(choice.lower())
119
120     text1 = text("Enter your expected Date of Arrival(DD/MM/YYYY):")
121     choice = text1.printss1()
122     user.append(choice[-4:] + "/" + choice[3:5] + "/" + choice[0:2])
123
124     text1 = text("Applicant Details")
125     text1.printss2()
126
127     text1 = text("Enter your Surname (exactly as in your passport): ")
128     choice = text1.printss1()
129     user.append(choice)
130
131     text1 = text("Enter your Given Name/s (exactly as in your passport): ")
132     choice = text1.printss1()
133     user.append(choice)
134
135     text1 = text("Have you ever changed your name?: ")
136     choice = text1.printssy_n()
137     user.append(choice)
138
139     choice = 0
140     while choice != "M" and choice != "F" and choice != "N" :
141         text1 = text('Male -> Enter M')
142         text1.printss4()
143
144         text1 = text('Female -> Enter F')
145         text1.printss4()
```

VisaAPP.py > ...

```
80  def visaAPP():
145         text1.printss4()
146
147         text1 = text('None of the above -> Enter N')
148         text1.printss4()
149
150
151         text1 = text("Enter your Gender: ")
152         choice = text1.printss1()
153     user.append(choice)
154     for i in ["Enter City of Birth: ", "Enter Country of Birth: ", "Enter Citizenship/National ID no.: ",
155               "Enter your religion: ","Enter visible identification marks(Enter N/A if no identification marks present): ",
156               "Enter your Educational Qualification(if multiple then separate them with comma(,)): ",
157                ]:
158         text1 = text(i)
159         choice = text1.printss1()
160
161         if i == "Enter Country of Birth: ":
162             while choice not in countries:
163                 text1 = text(i)
164                 choice = text1.printss1().title()
165         user.append(choice)
166
167     text1 = text("Nationality: " + user[1])
168     text1.printss2()
169
170     text1 = text('By birth -> Enter B')
171     text1.printss4()
172
173     text1 = text('By naturalization -> Enter N')
174     text1.printss4()
175
176     text1 = text("Did you aquire nationality by birth or by naturalization?: ")
177     choice = text1.printss1()
178     user.append(choice)
179
180     text1 = text("Have you lived for atleast two years in the country where you are applying visa?: ")
181     choice = text1.printssy_n()
182     user.append(choice)
183
184     text1 = text("Passport Details")
185     text1.printss2()
186
187     text1 = text("Passport Number: ")
188     choice = text1.printss1()
189     user.append(choice)
190
191     text1 = text("Place of Issue: ")
192     choice = text1.printss1()
193     user.append(choice)
```

VisaAPP.py > ...

```
80  def visaAPP():
194
195     text1 = text("Date of Issue: ")
196     choice = text1.printss1()
197     user.append(choice[-4:] + "/" + choice[3:5] + "/" + choice[0:2])
198
199     text1 = text("Date of Expiry of Issue: ")
200     choice = text1.printss1()
201     user.append(choice[-4:] + "/" + choice[3:5] + "/" + choice[0:2])
202
203     text1 = text("Applicant's Address Details")
204     text1.printss2()
205
206     text1 = text("Present address")
207     text1.printss3()
208
209     for i in ["House No./Street: ", "Village/Town/City: ",  #10,9,8
210               "State/Province/District: ", "Country: ", "Postal/ZipCode: ",
211               "Enter Phone no. Country Code: "]:
212         text1 = text(i)
213         choice = text1.printss1()
214         user.append(choice)
215         text1 = text("Enter Phone no.: ")
216     choice = text1.printsn1()
217     user.append(choice)
218
219     text1 = text("Enter Mobile no. Country Code: ")
220     choice = text1.printss1()
221     user.append(choice)
222
223     text1 = text("Enter Mobile no.: ")
224     choice = text1.printsn1()
225     user.append(choice)
226
227     text1 = text("Enter Email Address: ")
228     choice = text1.printss1()
229     user.append(choice)
230
231     text1 = text("Is your Permanent Address same as your Present Address:")
232     choice = text1.printssy_n()
233     if choice == "Y":
234         user.append(user[-10])
235         user.append(user[-9])
236         user.append(user[-8])
237     else:
238         text1 = text("Permanent address")
239         text1.printss3()
240         for i in ["House No./Street: ", "Village/Town/City: ",
241                   "State/Province/District: "]:
242             text1 = text(i)
```

VisaAPP.py > ...

```
80  def visaAPP():
242             text1 = text(i)
243             choice = text1.printss1()
244             user.append(choice)
245
246
247     text1 = text("Family Details")
248     text1.printss2()
249
250     text1 = text("Father's Details")
251     text1.printss3()
252
253     for i in ["Name: ", "Nationality: ", "Previous Nationality(Enter N/A if not applicable): ",
254               "Place of Birth: ", "Country of Birth: "]:
255         if i == "Country of Birth: ":
256             while choice not in countries:
257                 text1 = text(i)
258                 choice = text1.printss1()
259                 if choice not in countries:
260                     print("Country not found")
261         else:
262             text1 = text(i)
263             choice = text1.printss1()
264             user.append(choice)
265
266     text1 = text("Mother's Details")
267     text1.printss3()
268
269     for i in ["Name: ", "Nationality: ", "Previous Nationality(Enter N/A if not applicable): ",
270               "Place of Birth: ", "Country of Birth: "]:
271         if i == "Country of Birth: ":
272             while choice not in countries:
273                 text1 = text(i)
274                 choice = text1.printss1()
275                 if choice not in countries:
276                     print("Country not found")
277         else:
278             text1 = text(i)
279             choice = text1.printss1()
280             user.append(choice)
281
282
283     choice = 0
284     while choice not in ["Divorced", "Married", "Single", "Widowed"]:
285         for i in ["Divorced", "Married", "Single", "Widowed"]:
286             text1 = text(i)
287             text1.printss4()
288         text1 = text("Applicant's Maritial Status: ")
289         choice = text1.printss1()
290         if choice not in ["Divorced", "Married", "Single", "Widowed"]:
```

VisaAPP.py > ...

```
80  def visaAPP():
290         if choice not in [ Divorced ,  Married ,  Single ,  Widowed ]:
291             print("Choose one the given choices")
292     user.append(choice)
293
294     text1 = text("Were your Parents/Grandparents(Paternal or Maternal) Pakistan National or Belong to Pakistan Held area.: ")
295     choice = text1.printssy_n()
296     user.append(choice)
297
298     text1 = text("If yes then give details(Else Enter N/A): ")
299     choice = text1.printss1()
300     user.append(choice)
301
302     text1 = text("Details of Visa Sought")
303     text1.printss2()
304
305     text1 = text("Type of Visa: e-Visa")
306     text1.printss1()
307
308     text1 = text("Visa Service: eTourist Visa")
309     text1.printss1()
310
311     text1 = text("Places to be Visited(if multiple then separate with commas eg. Raipur, Jaipur): ")
312     choice = text1.printss1()
313     user.append(choice)
314
315     text1 = text("Have you booked any room in Hotel/Resort etc. through any Tour Operator?: ")
316     choice = text1.printssy_n()
317     user.append(choice)
318
319     text1 = text("Visa Duration: 365 days")
320     text1.printss1()
321     user.append(365)
322
323     text1 = text("No. of Entries: Multiple")
324     text1.printss1()
325
326     text1 = text("Port of Arrival in India: %s"%(user[2]))
327     text1.printss1()
328
329     text1 = text("Expected Port of Exit from India: %s"%(user[3]))
330     text1.printss1()
331
332     text1 = text("Previous Visa/Currently valid Visa Details")
333     text1.printss2()
334
335     text1 = text("Have your ever visited india before?: ")
336     choice = text1.printssy_n()
337     user.append(choice)
338     if choice == "Y":
```

```
    user.append(choice)
    if choice == "Y":
        for i in ["Address of stay during last visit: ", "Cities previously visited in india: ",
                  "Last indian Visa No./ Currently Valid Indian Visa No.: ", "Type of visa: ", "Place of issue: ",
                  "Date of issue: "]:
            text1 = text(i)
            choice = text1.printssl()
            user.append(choice)
        text1 = text("Has permission to visit or to extend stay in India previously been refused?: ")
        choice = text1.printssy_n()
        user.append(choice)
        text1 = text("If so, when and by whom (Mention Control No. and date also: ")
        choice = text1.printssl()
        user.append(choice)
    else:
        for i in range(8):
            user.append("N/A")

    text1 = text("Other Information")
    text1.printss2()

    text1 = text("Countries visited in the Last 10 years: ")
    choice = text1.printssl()
    user.append(choice)

    text1 = text("SAARC Country Visit Details: ")
    text1.printss2()

    text1 = text("Have you visited SAARC countries (except your own country) during last 3 years?")
    choice = text1.printssy_n()
    user.append(choice)

    text1 = text("Reference")
    text1.printss2()

    text1 = text("Reference Name in India: ")
    choice = text1.printssl()
    user.append(choice)

    text1 = text("Address: ")
    choice = text1.printssl()
    user.append(choice)

    text1 = text("Phone no. Country code: ")
    choice = text1.printssl()
    user.append(choice)

    text1 = text("Phone no.: ")
    choice = text1.printsnl()
```

VisaAPP.py > ...

```
80  def visaAPP():
385     choice = text1.printsn1()
386     user.append(choice)
387
388     text1 = text("Reference name in %s: "%(user[1]))
389     choice = text1.printss1()
390     user.append(choice)
391
392     text1 = text("Address in %s: "%(user[1]))
393     choice = text1.printss1()
394     user.append(choice)
395
396
397     text1 = text("Phone no. Country code in %s: "%(user[1]))
398     choice = text1.printss1()
399     user.append(choice)
400
401     text1 = text("Phone no. in %s: "%(user[1]))
402     choice = text1.printsn1()
403     user.append(choice)
404
405     text1 = text("Additional Question Details")
406     text1.printss1()
407     for i in ["Have you ever been arrested/ prosecuted/ convicted by the Court of Law of any country?: ",
408               "Have you ever been refused entry/ deported by any country including india?: ",
409               "Have you ever been engaged in Cyber crime/ Terrorist activities/ Sabotage/ Espionage/ Genocide/ Political killing/ Other acts of violence?: ",
410               "Have you ever by any means or medium, expressed views that justify or glorify terrorist violence or that may encourage others to terrorist acts or other serious criminal acts: ",
411               "Have you sought asylum(Political or otherwise) in any country?: "]:
412         text1 = text(i)
413         choice = text1.printssy_n()
414         user.append(choice)
415     insertStatement = "INSERT INTO visaAPP Values("
416     for i in user:
417         if isinstance(i, str):
418             insertStatement += '"'+str(i) + '"' + ", "
419         elif isinstance(i, int):
420             insertStatement += str(i) + ", "
421     insertStatement = insertStatement[:-2] + ");"
422     return insertStatement
423
```

Run.py > ...

```python
import mysql.connector as ms
from VisaAPP import visaAPP
database_name = 'summer_project'
mc = ms.connect(host = 'localhost', user = 'root', password = 'root', database = database_name)
if mc.is_connected:
    print("Connected! (◕‿◕✿)")
c = mc.cursor()

def spaces(n):
    if n % 2 == 0:
        n
    else:
        n = n
    size = int((size - 13)/2)
    return n


#E-VISA PORTAL HEADER
class headertxt:
    def __init__(self, size, txt):
        self.size = size #only odd values
        self.txt = txt
        txt_l = len(self.txt)
        if txt_l%2 == 0:
            self.txt += " "
            txt_l = len(self.txt)
        self.spaces = int((size - txt_l)/2)



#Text Editor
class text:
    def __init__(s, text):
        s.text = text
        s.text_l = len(text)
    def printss1(s): #FOR HEADERS
        print("|" + " "*txt.size + "|")
        print("|" + s.text+ " "*(txt.size - s.text_l)  + "|")
    def printss2(s): #FOR SUBHEADERS
        print("|" + " "*txt.size + "|")
        print("|" + " "*txt.size + "|")
        print("|" + s.text+ " "*(txt.size - s.text_l)  + "|")
    def printss3(s): #FOR SUB-SUB HEADERS
        print("|" + " "*txt.size + "|")
        print("|" + " "*txt.size + "|")
        print("|" + " "*txt.size + "|")
        print("|" + " "*txt.size + "|")
        print("|" + s.text+ " "*(txt.size - s.text_l)  + "|")
    def printss4(s): #FOR QUERIES
        print("|" + " "*txt.size + "|")
```

```
    def printss4(s): #FOR QUERIES
        print("|" + " "*txt.size + "|")
        print("|     " + s.text+ " "*(txt.size - s.text_l - 5)  + "|")
    def printsn_l(s): #FOR INPUT Left aligned
        print("|" + " "*txt.size + "|")
        print("   " + s.text, end ="")
        i = int(input(""))
        return i

txt = headertxt(121, "INDIAN E-VISA PORTAL") #101
print("|" + "-"*txt.size + "|")
print("|" + " "*txt.size + "|")
print("|" +" "*txt.spaces + txt.txt + " "*txt.spaces + "|")
print("|" + " "*txt.size  + "|")
print("|" + "-"*txt.size  + "|")

c.execute("create table if not exists visaAPP (passportType varchar(30) NOT NULL, nationality varchar(30) NOT NULL, portOfArrival varchar(30) NOT NULL, portOfexit varchar(30) NOT NULL, DOB date NOT
c.execute(visaAPP())
mc.commit()
```