```
111111
1
   MCQ TEST CREATION SOFTWARE
2
   STUDENT NAME: RUPESH SINGH
   CLASS: 12
  SECTION: A
  ROLL NO.: 12125
   #MCQ TEST GENERATOR
   import os.path
10
   #above library to check existence of file
11
   def checker():
                         #checks whether the user is -
12
   a student or teacher
     print("WHO ARE YOU:")
13
     print("1.TEACHER")
14
     print("2.STUDENT")
15
     interface=input("ENTER 1 OR 2:")
16
     if(interface=='1'):
17
       teacher()
18
     elif(interface=='2'):
19
         student()
20
     else:
21
       print("!INVALID INPUT! \n PLEASE RE-ENTE -
22
   R \n ENTER ONLY 1 OR 2 \n")
       checker()
23
24
   def linereader(file):
                                #to read file
25
     read=file.readlines()
26
     print("""FORMAT IS \n
        QNO, QUESTION, OPTION A, OPTION B, OPTIO
28
```

```
N C,OPTION D,CORRECT,MARKS""")
     for line in read:
29
       c=line.split("~")
30
       print(c)
31
32
   def qdeletor(name,qno):
                                          #To delete a qu -
33
   estion
       a=open(name,"r+")
34
       b=a.readlines()
35
       a.close()
36
       print("FORMAT \n questionumber,question,A -
37
   ,B,C,D,CORRECT,MARKS")
       l=len(b)
38
       for i in range(0,l,1):
39
         d=b[i]
40
         c=d.split("~")
41
         if(c[0]==qno):
42
            b[i]=""
            break
44
         else:
45
            continue
46
       new=open(name,"w+")
47
       for line in b:
         if(len(line)==0 or len(line)==1):
49
            continue
50
         else:
51
            new.write(line)
52
           new.write("\n")
       new.close()
55
```

```
def qeditor(name):
                              #function to edit a que -
56
   stion
     file=open(name,"r")
57
     s=file.readlines()
58
     file.close()
59
     for i in s:
60
       print(i)
61
     qno=input("ENTER QUESTION NUMBER WHIC -
   H YOU WANT TO EDIT: ")
     q=input("ENTER QUESTION: ")
63
     optiona=input("ENTER OPTION A: ")
64
     optionb=input("ENTER OPTION B: ")
65
     optionc=input("ENTER OPTION C: ")
     optiond=input("ENTER OPTION D: ")
67
     correct=input("ENTER CORRECT OPTION A/B/C -
68
   /D:")
     mark=input("ENTER MARKS FOR CORRECT AN -
69
   SWER: ")
     line=qno+"~"+q+"~"+optiona+"~"+optionb+"~"+
70
   optionc+"~"+optiond+"~"+correct+"~"+mark
     h=""
71
     for i in s:
72
       c=i.split("~")
73
       if(c[0]==str(qno)):
74
        j=line+"\n"
75
        h=h+j
76
       else:
77
         h=h+i
     file=open(name,"w")
     file.write(h)
80
```

```
file.close()
81
     print("QUESTION EDIT SUCCESSFUL")
82
     m=input("WANT TO EDIT MORE QUESTION(Y/ -
83
   N): ")
     if(m=="Y" or m=="y"):
84
       qeditor(name)
85
      else:
86
       print("THANK YOU")
88
   def timediff(starthour,startminute):
                                               #to cal -
89
    culate how many minutes completed
     from datetime import datetime
90
     x=datetime.now().time()
91
     hour=int((str(x)[0:2]))
92
     min=int((str(x))[3:5])
93
     if(starthour==hour):
94
       print(min-startminute,"MINUTES COMPLETE -
95
   D.")
       return min-startminute
96
     elif(hour>starthour):
97
       print((60-startminute)+min+(60*((hour-starth -
98
    our)-1)),"MINUTES COMPLETED.")
       z=(60-startminute)+min+(60*((hour-starthour) -
99
   -1))
       return z
100
101
   def qdisplay(mcqname):
                                     #DISPLAYS QUES -
102
    TIONS TO THE STUDENT
     from datetime import datetime
103
     import time
104
```

```
file=open(mcqname,"r")
105
      s=file.readlines()
106
      file.close()
107
      a=datetime.now().time()
108
      b=str(a)
109
      starthour=int(b[0:2])
110
      startminute=int(b[3:5])
111
      points=0
      print("CURRENT TIME IS", starthour, "HOURS AN -
    D",startminute,"MINUTES.\n \n")
      time.sleep(1)
114
      print("TEST STARTS NOW")
115
      for i in s:
        y=i.split("~")
117
        if(len(y)==0):
118
          continue
119
        else:
120
          print("QUESTION: ",y[1],"\n")
121
          print("OPTION A:",y[2])
122
          print("OPTION B:",y[3])
123
          print("OPTION C",y[4])
124
          print("OPTION D:",y[5])
125
          answer=input("ENTER ONLY OPTION IN CA-
126
    PITAL LETTER: ")
          if(answer not in ["A","B","C","D","a","b","c","d"]):
127
            print("CHOOSE CORRECT OPTION, RETRY -
128
    ONE MORE TIME.")
            answer=input("ENTER ONLY OPTION: ")
129
            if(answer==y[6] or answer==y[6].upper()):
              points=points+int(y[7])
131
```

```
timediff(starthour, startminute)
132
            else:
133
              timediff(starthour,startminute)
134
              continue
135
          else:
136
            if(answer==y[6]):
137
              points=points+int(y[7])
            else:
              continue
          if(timediff(starthour,startminute)>len(s)):
141
            print("TIME IS OVER.")
142
            print("TEST OVER.THANK YOU STUDENT.")
143
            break
          else:
145
            continue
146
      print("DISPLAYING YOUR MARKS IN:")
147
      for i in range(5,0,-1):
148
        print(i,end=" ")
149
        time.sleep(1)
150
      print("YOUR MARKS IS",points)
151
      return points
152
153
154
    def refiner(name):
                                 #rearrange questions so -
155
    as to remover whitespaces and empty line
      r=open(name,"r")
156
      s=r.readlines()
157
      r.close()
158
      l=len(s)
      t=open(name,"w+")
160
```

```
for i in range(0,1,1):
161
       s[i]=s[i].lstrip()
162
       s[i]=s[i].rstrip()
       if(len(s[i])==1 or len(s[i])==0):
164
         continue
165
        else:
166
         t.write(s[i])
         t.write("\n")
     t.close()
170
171
172
173
   def teacher():
                                      #starts teacher in -
   terface
     print("WELCOME TO MCQ TEST GENERATOR")
175
     tname=input("DEAR TEACHER, PLEASE ENTER -
176
    YOUR NAME:")
     subname=input("ENTER THE NAME OF SUBJEC -
177
   T: ")
     task=input("""ENTER THE TASK,CHOOSE FRO -
178
   M BELOW: \n
           1.CREATE A NEW MCQ TEST \n
179
           2.EDIT AN MCQ TEST \n
180
           3.SHOW MARKS OF STUDENTS \n
181
           4.EXIT
182
           ENTER ONLY THE RESPECTIVE NUMBER: -
183
    \n""")
     def questionmaker(file):
                                        #function to ad -
184
    d a new question
```

```
qno=input("ENTER QUESTION NUMBER")
185
             q=input("ENTER QUESTION: ")
186
             optiona=input("ENTER OPTION A: ")
187
             optionb=input("ENTER OPTION B: ")
188
             optionc=input("ENTER OPTION C: ")
189
             optiond=input("ENTER OPTION D: ")
190
             correct=input("ENTER CORRECT OPTIO -
191
   N A/B/C/D:")
             mark=input("ENTER MARKS FOR CORR -
192
   ECT ANSWER: ")
             line=qno+"~"+q+"~"+optiona+"~"+optio -
193
   nb+"~"+optionc+"~"+optiond+"~"+correct+"~"+m -
   ark
             file.write(line)
194
             file.write('\n')
195
             a=input("WANT TO ENTER MORE QUES -
196
    TIONS(Y/N): ")
             if(a=="y" or a=="Y"):
197
               questionmaker(file)
198
             else:
199
               file.close()
200
               print("YOUR MCQ HAS BEEN SAVED")
201
     if(task=='1'):
202
       def new():
                      #function to create a new mcq fi -
203
   1e
         name=input("ENTER THE NAME OF MCQ TE -
204
   ST: ")
         filename=name+"_"+tname+"_"+subname+" -
205
    .txt"
         if os.path.exists(filename)==True:
                                               #so th
206
```

```
at previous file is not deleted
           print("MCQ WITH THE SAME NAME ALR -
207
   EADY EXISTS \n PLEASE USE ANOTHER NAME")
           new()
208
         else:
209
           print("THE NEW MCQ FILE IS CREATED WI -
210
   TH NAME:",filename)
           file=open(filename,"w+")
211
           questionmaker(file)
                                          #adds a ne -
212
   w question
         rep=input("WANT TO CREATE ANOTHER MC -
213
   Q TEST? : Y/N")
         if(rep=="Y" or rep=="y"):
214
           new()
215
       new()
                                  #creates a new mc -
216
   q file
     elif(task=='2'):
                   #edit an existing mcq file
217
       def edit():
218
         name=input("ENTER THE FULL NAME OF MC -
   Q TEST WHICH YOU WANT TO EDIT WITH .txt EX -
   TENSION: ")
         if os.path.exists(name)==False:
220
           print("THIS FILE DOES NOT EXIST, PLEA -
221
   SE RE-ENTER THE FILE NAME:")
           edit()
222
         else:
223
           choose=input("""SELECT THE TASK: \n
224
                 1.EDIT A QUESTION \n
225
                 2.ADD MORE QUESTIONS \n
                 3.DELETE A QUESTION \n
227
```

```
ENTER ONLY 1 OR 2: \n""")
228
                                       #edit a question
            if(choose=="1"):
229
              qeditor(name)
230
            elif(choose=="2"):
                                      #add more questi -
231
    ons
              file=open(name,"a+")
232
              questionmaker(file)
233
            elif(choose=="3"):
                                      #deletes a question
              file=open(name,"r+")
235
              linereader(file)
236
              delno=input("ENTER THE QUESTION NU -
237
    MBER YOU WANT TO DELETE: ")
              qdeletor(name, delno)
238
              print("DELETED.")
239
              m=input("WANT TO EDIT MORE QUEST -
240
    ION(Y/N): ")
              if(m=="Y" or m=="y"):
241
                qeditor()
242
              else:
243
                print("THANK YOU")
244
          refiner(name)
245
        edit()
246
      elif(task=="3"):
247
        stumark=open("studentmarks.csv","r")
248
        r=stumark.readlines()
249
        for line in r:
250
          o=line.split(",")
251
          print("STUDENT NAME: ",o[0])
          print("CLASS: ",o[1])
253
          print("SECTION: ",o[2])
254
```

```
print("ROLL NO.: ",o[3])
255
         print("MCQ NAME:",o[4])
256
         print("MARKS:",o[5])
     elif(task=="4"):
258
       print("THANK YOU")
259
     else:
260
       print("! INVALID INPUT !\n RE-ENTER CORR -
261
   ECT NUMBER")
       teacher()
262
     ask=input("WANT TO GO TO MAIN MENU? : (Y/ -
263
   N)")
     if(ask=="Y" or ask=="y"):
264
       teacher()
     else:
       print("THANK YOU")
267
268
269
   def student():
                           #starts student interface
270
     print("WELCOME STUDENT")
     sname=input("DEAR STUDENT,ENTER YOUR NA -
272
   ME: ")
     sclass=input("ENTER YOUR CLASS IN DIGITS: ")
273
     ssec=input("ENTER SECTION IN CAPITAL LETT -
274
   ERS: ")
     sroll=input("ENTER YOUR ROLL NUMBER IN DI-
275
   GITS: ")
     mcqname=input("ENTER FULL FILE NAME OF TH -
276
   E MCQ TEST YOU WANT TO GIVE WITH .txt EXTE -
   NSION: ")
     if os.path.exists(mcqname)==False:
277
```

```
print("MCQ FILE WITH NAME",mcqname,"DO -
278
   ES NOT EXISTS \n ENTER ANOTHER NAME")
       student()
279
     else:
280
       import time
281
       file=open(mcqname,"r")
282
       s=file.readlines()
283
       file.close()
       print("\n GENERAL INSTRUCTIONS FOR THE T
285
   EST \setminus n''
       time.sleep(1)
286
       print("1.THE PAPER CONSIST OF",len(s),"QUE -
287
   STIONS \n")
       time.sleep(1)
288
       print("2.YOU HAVE",len(s),"MINUTES TO COM -
289
   PLETE THIS TEST.\n")
       time.sleep(1)
290
       print("3.ONE MARKS WILL BE DEDUCTED FO -
291
   R EACH EXTRA MINUTE TAKEN TO COMPLETE TH -
   IS TEST.\n")
       time.sleep(1)
292
       print("4.CHECK THE TIME THROUGH THE SY -
293
   SYEM CLOCK.\n")
       time.sleep(1)
294
       print("5.NO NEGATIVE MARKING.\n")
295
       time.sleep(1)
296
       print("6.OPTION ONCE CHOSEN WILL NOT BE -
297
    CHANGED,BE CAREFUL.\n")
       time.sleep(1)
       print("7.BEST OF LUCK FOR THE TEST.\n")
299
```

```
time.sleep(1)
300
        ready=input("""ARE YOU READY FOR THE TE -
301
    ST(Y/N)\n
              YOUR TIME START AS SOON AS YOU EN -
302
    TER Y:""")
        if(ready=="Y" or ready=="y"):
303
          print("YOUR TEST STARTS IN:")
304
          for i in range(5,0,-1):
            print(i,end=" ")
306
            time.sleep(1)
307
          print("0")
308
          time.sleep(1)
309
        marks=qdisplay(mcqname)
        stufile=open("studentmarks.csv","a")
311
        p=str(sname+","+sclass+","+ssec+","+sroll+","+ -
312
    mcqname+","+str(marks))
        stufile.write(p)
313
        stufile.write("\n")
314
        print("YOUR MARKS IS SAVED")
315
316
    checker()
                             #STARTS THE PROGRAM -
317
```