

$\text{len}(v) = \sqrt{v}$

22

Sunday

December
20
24

Week 51 / Day 357 - 9

dir()

help()

ديسمبر

الجماد الآخر ١٤٤٦

one

variable store
multi Values

array []

ئەئىد []

ئەلەمەن []

بۆلۈم []



Lists - sets - Tuples



[]

Duplicate ✓

ordered ✓

Changeable ✓

to iterate

for x in fruits: print(x)

print(x)

("apple" in fruits)



True / False

list with short edited

→ fruits.append("pinapple") → يزود عباره من الآخر

- remove (" ")

- insert (0, " ")

/ insert (" ")

Count (" ")

S M T W T F S S M T W T F S S M T W T F S S M T

DECEMBER	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
JAMAD I / JAMAD II	29	30	31	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

- Sort()

- Reverse()

- Clear()

21

Saturday

December
20
24

Week 51 / Day 356

السبت
ديسمبر

٢٠ جمادى الآخر ١٤٤٦

Sets

8:00

9:00

10:00

11:00

12:00

1:00

2:00

3:00

4:00

5:00

6:00

7:00

8:00

9:00

10:00

-

set.
datastructure
collection

٢٠ جمادى الآخر ١٤٤٦

nonchangeable ✓

unordered ✓

No duplicates ✓

remove/add ✓

error

Tuples

()

ordered

unchangeable

Duplicate

But it is faster than List

File

Print

Exit

Save

Open

Print

Exit

	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M
DECEMBER	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
JAMADII/JAMADII	29	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15

20
Friday

December
20
24

Week 51 / Day 355 - 11

ديسمبر

١٩ جماد الآخر ١٤٤٦

الجمعة

Foods = []

list tail Q.S.



prices = []

Total = 0

[" ", " ", " ", " ", " ", " "] = Head



[" ", " ", " "] = & tail



while true :

[" "] = & tail



Food = input ()

[eatit , eatit , eatit] = tail Q.S.



if Food.lower() == "q" :

tail ← [] tail Q.S.



break

else :
Price = input ()



Foods.append (Food) ← (ضافة)



for food in Foods in one line

دلسته

→ Print (Food, end = " ")



	S	M	T	W	T	F	S	S	M	T	W	F	S	S	M	T	W	F	S	S	M												
DECEMBER	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
JAMAD I / JAMAD II	29	30	31	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

ديسمبر
جماد الأول / جماد الآخر

19

Thursday

December
20
24

Week 51 / Day 354 - 12

19

الخميس
ديسمبر

١٤٤٦ جماد الآخر



2D list

8:00

[] = about

9:00

[] = eating

10:00

list1 = ["—" , "—" , "—"] o = list

11:00

list2 = ["—" , "—"] point slider

12:00



list3 = ["—"]

1:00

2D list = [list1 , list2 , list3]

3:00

2D list [i] → row i → list1

4:00

2D list [i][j] → عنصر j من list i

5:00

For Collection in groceries []

6:00

print (collection) → []

7:00

For Collection in groceries []

8:00

print (collection) → []

9:00

For Collection in groceries []

10:00

print (collection) → []

11:00

For Food in Collection []

12:00

print (food) []

13:00

14:00

15:00

16:00

17:00

18:00

19:00

20:00

21:00

22:00

23:00

24:00

25:00

26:00

27:00

28:00

29:00

30:00

31:00

32:00

33:00

34:00

35:00

36:00

37:00

38:00

39:00

40:00

41:00

42:00

43:00

44:00

45:00

46:00

47:00

48:00

49:00

50:00

51:00

52:00

53:00

54:00

55:00

56:00

57:00

58:00

59:00

60:00

61:00

62:00

63:00

64:00

65:00

66:00

67:00

68:00

69:00

70:00

71:00

72:00

73:00

74:00

75:00

76:00

77:00

78:00

79:00

80:00

81:00

82:00

83:00

84:00

85:00

86:00

87:00

88:00

89:00

90:00

91:00

92:00

93:00

94:00

95:00

96:00

97:00

98:00

99:00

100:00

101:00

102:00

103:00

104:00

105:00

106:00

107:00

108:00

109:00

110:00

111:00

112:00

113:00

114:00

115:00

116:00

117:00

118:00

119:00

120:00

121:00

122:00

123:00

124:00

125:00

126:00

127:00

128:00

129:00

130:00

131:00

132:00

133:00

134:00

135:00

136:00

137:00

138:00

139:00

140:00

141:00

142:00

143:00

144:00

145:00

146:00

147:00

148:00

149:00

150:00

151:00

152:00

153:00

154:00

155:00

156:00

157:00

158:00

159:00

160:00

161:00

162:00

163:00

164:00

165:00

166:00

167:00

168:00

169:00

170:00

171:00

172:00

173:00

174:00

175:00

176:00

177:00

178:00

179:00

180:00

181:00

182:00

183:00

184:00

185:00

186:00

187:00

188:00

189:00

190:00

191:00

192:00

193:00

194:00

195:00

196:00

197:00

198:00

199:00

200:00

201:00

202:00

203:00

204:00

205:00

206:00

207:00

208:00

209:00

210:00

211:00

212:00

213:00

214:00

215:00

216:00

217:00

218:00

219:00

220:00

221:00

222:00

223:00

224:00

225:00

226:00

227:00

228:00

229:00

230:00

231:00

232:00

233:00

234:00

235:00

236:00

237:00

238:00

239:00

240:00

241:00

242:00

243:00

244:00

245:00

246:00

247:00

248:00

249:00

250:00

251:00

252:00

253:00

254:00

255:00

256:00

257:00

258:00

259:00

260:00

261:00

262:00

263:00

264:00

265:00

266:00

267:00

268:00

269:00

270:00

271:00

272:00

273:00

274:00

275:00

276:00

277:00

18

Wednesday

December
20
24

Week 51 / Day 353 - 13

ديسمبر

١٤٤٦ جماد الآخر

الأربعاء

Dictionary

Collection of { keys : values } ordered
Changeable
No duplicates

key value

Capitals = { "USA" : "Washington",
 "India" : "Newdelhi" }

to get Value Capitals.get("USA")

Capitals.pop()
 (dict).update({ "Germany" : "Berlin" })

() - Pop ("key") → pop key and value

- Pop item() → last

("Massachusetts", "Boston")
 - keys() = enitgo

(enitgo) ↓
 - Values()

S	M	T	W	F	S	S	M	T	W	F	S	S	M	T	F	S	S	M	T	F	S	S	M	T	F	S	S	M	T	F	S	
DECEMBER	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
JAMAD I / JAMAD II	29	30	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

ديسمبر

جماد الأول / جماد الآخر

17

Tuesday

December
20
24

Week 51 / Day 352 - 14

ديسمبر

١٧ الثلاثاء

١٧ جمادى الآخر ١٤٤٦

①

Capitals.items () :

8:00

9:00

10:00

11:00

12:00

1:00

2:00

3:00

4:00

5:00

6:00

7:00

8:00

9:00

10:00

11:00

12:00

1:00

2:00

3:00

4:00

5:00

6:00

7:00

8:00

9:00

10:00

11:00

12:00

1:00

2:00

3:00

4:00

5:00

6:00

7:00

8:00

9:00

10:00

11:00

12:00

1:00

2:00

3:00

4:00

5:00

6:00

7:00

8:00

9:00

10:00

11:00

12:00

1:00

2:00

3:00

4:00

5:00

6:00

7:00

8:00

9:00

10:00

11:00

12:00

1:00

2:00

3:00

4:00

5:00

6:00

7:00

8:00

9:00

10:00

11:00

12:00

1:00

2:00

3:00

4:00

5:00

6:00

7:00

8:00

9:00

10:00

11:00

12:00

1:00

2:00

3:00

4:00

5:00

6:00

7:00

8:00

9:00

10:00

11:00

12:00

1:00

2:00

3:00

4:00

5:00

6:00

7:00

8:00

9:00

10:00

11:00

12:00

1:00

2:00

3:00

4:00

5:00

6:00

7:00

8:00

9:00

10:00

11:00

12:00

1:00

2:00

3:00

4:00

5:00

6:00

7:00

8:00

9:00

10:00

11:00

12:00

1:00

2:00

3:00

4:00

5:00

6:00

7:00

8:00

9:00

10:00

11:00

12:00

1:00

2:00

3:00

4:00

5:00

6:00

7:00

8:00

9:00

10:00

11:00

12:00

1:00

2:00

3:00

4:00

5:00

6:00

7:00

8:00

9:00

10:00

11:00

12:00

1:00

2:00

3:00

4:00

5:00

6:00

7:00

8:00

9:00

10:00

11:00

12:00

1:00

2:00

3:00

4:00

5:00

6:00

7:00

8:00

9:00

10:00

11:00

12:00

1:00

2:00

3:00

4:00

5:00

6:00

7:00

8:00

9:00

10:00

11:00

12:00

1:00

2:00

3:00

4:00

5:00

6:00

7:00

8:00

9:00

10:00

11:00

12:00

1:00

2:00

3:00

4:00

5:00

6:00

7:00

8:00

9:00

10:00

11:00

12:00

1:00

2:00

3:00

4:00

5:00

6:00

7:00

8:00

9:00

10:00

11:00

12:00

1:00

2:00

3:00

4:00

5:00

6:00

7:00

8:00

9:00

10:00

11:00

12:00

1:00

2:00

3:00

4:00

5:00

6:00

7:00

8:00

9:00

10:00

11:00

12:00

1:00

2:00

3:00

4:00

5:00

6:00

7:00

8:00

9:00

10:00

11:00

12:00

1:00

2:00

3:00

4:00

5:00

6:00

7:00

8:00

9:00

10:00

11:00

12:00

1:00

2:00

3:00

4:00

5:00

6:00

7:00

8:00

9:00

10:00

11:00

12:00

1:00

2:00

3:00

4:00

5:00

Monday

24

Week 51 / Day 351 - 15

ديسمبر

١٥ جماد الآخر ١٤٤٦

الاثنين

handeling errors

try:

(1)

except Exception:

except Exception:

print (_____)

except as

print (_____)

i being

else:

print (result).

Finally:

which will always executed ↪

	S	M	T	W	F	S	S	M	T	W	F	S	S	M	T
DECEMBER	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
JAMAD I / JAMAD II	29	30	1	2	3	4	5	6	7	8	9	10	11	12	13

دسمبر | جماد الآخر | ١٥ جماد الآخر ١٤٤٦

15
Sunday

import os

December
20
24

Week 50 / Day 350 - 16

ديسمبر

١٤ جماد الآخر ١٤٤٦

الأحد

①

Python file detection

8:00

after Creation of file

10:00

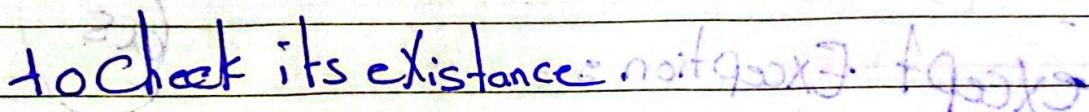
11:00

Path : " _____ " with 

12:00



1:00

to check its existence 

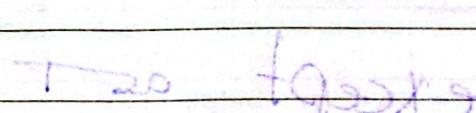
2:00

3:00

if os.path.exists(path) :

4:00



 تذكر

5:00



6:00

if os.path.isfile(path) :

7:00

8:00

لوقايل !

9:00

10:00

if os.path.isdir(path) :



لو فولر

14
Saturday

December
20
24

Week 50 / Day 349 - 17

ديسمبر

١٤

السبت

١٤ جماد الآخر ١٤٤٦

Read file

with open ("") as file

print (file.read())

... print (file.closed)

with open ("") as file

text

with open(name or path)

(_____, 'r') → read

, 'w') as file

text = _____

file.write(text)

(position, size) write

S	M	T	W	F	S	S	M	T	W	F	S	S	M	T	W	F	S	S	M
DECEMBER	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
JAMAD I / JAMAD II	20	21	22	23	24	25	26	27	28	29	30	31							

delete file

import os

os.remove()

os.rmdir(Path)