

The first homework

Q 1-A

```
Get Started Q 1-A.py x
C: > Users > Windows.10 > Desktop > 1978 ليلي مروان ديب > Q 1-A.py > [?] students
1 students=['layla','aya','mahir','samir','diana','lama']
2 n=input('enter student name ')
3 if n in students:
4     print("graduated!")
5 else:
6     print("not graduated")
```

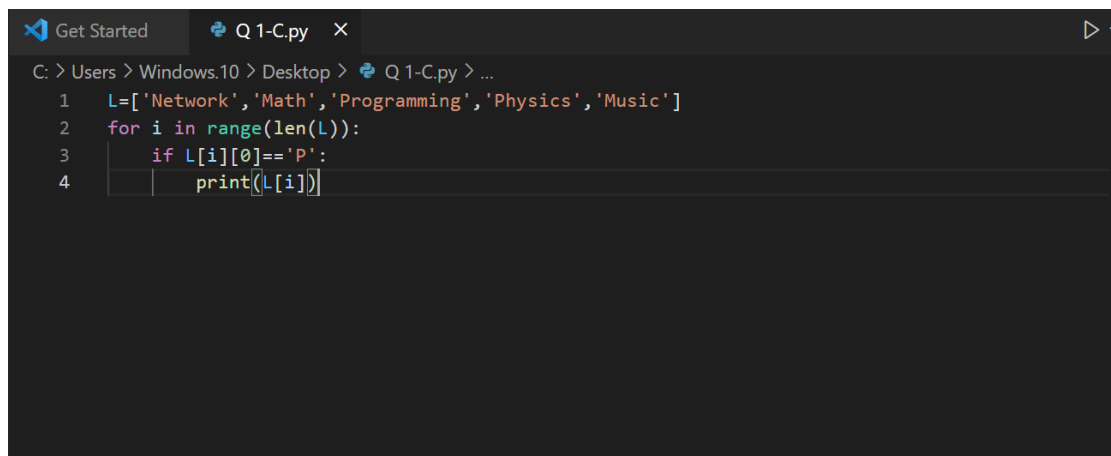
```
enter student name aya
graduated!
```

Q 1-B

```
Get Started Q 1-B.py X
C: > Users > Windows.10 > Desktop > 1978 ليلي مروان ديب > Q 1-B.py > [e] odd
1 odd=[x for x in range(1,1001) if x%2!=0]
2 print(odd)
```

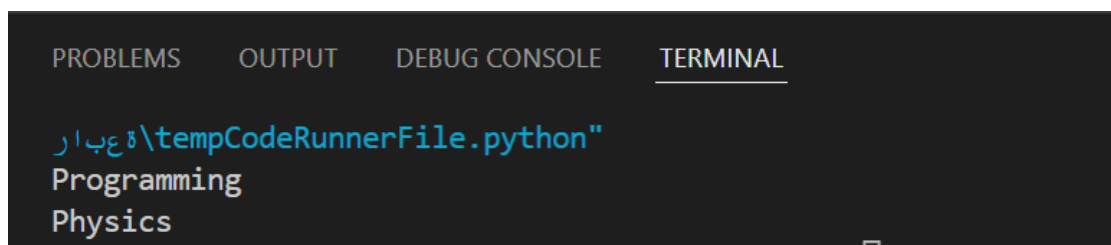
```
[1, 3, 5, 7, 9, 11, 13, 15, 17, 19, 21, 23, 25, 27, 29, 31, 33, 35, 37, 39, 41, 43, 45, 47, 49,
51, 53, 55, 57, 59, 61, 63, 65, 67, 69, 71, 73, 75, 77, 79, 81, 83, 85, 87, 89, 91, 93, 95, 97
, 99, 101, 103, 105, 107, 109, 111, 113, 115, 117, 119, 121, 123, 125, 127, 129, 131, 133, 135,
137, 139, 141, 143, 145, 147, 149, 151, 153, 155, 157, 159, 161, 163, 165, 167, 169, 171, 173,
175, 177, 179, 181, 183, 185, 187, 189, 191, 193, 195, 197, 199, 201, 203, 205, 207, 209, 211,
213, 215, 217, 219, 221, 223, 225, 227, 229, 231, 233, 235, 237, 239, 241, 243, 245, 247, 249,
251, 253, 255, 257, 259, 261, 263, 265, 267, 269, 271, 273, 275, 277, 279, 281, 283, 285, 287,
289, 291, 293, 295, 297, 299, 301, 303, 305, 307, 309, 311, 313, 315, 317, 319, 321, 323, 325,
327, 329, 331, 333, 335, 337, 339, 341, 343, 345, 347, 349, 351, 353, 355, 357, 359, 361, 363,
365, 367, 369, 371, 373, 375, 377, 379, 381, 383, 385, 387, 389, 391, 393, 395, 397, 399, 401,
403, 405, 407, 409, 411, 413, 415, 417, 419, 421, 423, 425, 427, 429, 431, 433, 435, 437, 439,
441, 443, 445, 447, 449, 451, 453, 455, 457, 459, 461, 463, 465, 467, 469, 471, 473, 475, 477,
479, 481, 483, 485, 487, 489, 491, 493, 495, 497, 499, 501, 503, 505, 507, 509, 511, 513, 515,
517, 519, 521, 523, 525, 527, 529, 531, 533, 535, 537, 539, 541, 543, 545, 547, 549, 551, 553,
555, 557, 559, 561, 563, 565, 567, 569, 571, 573, 575, 577, 579, 581, 583, 585, 587, 589, 591,
593, 595, 597, 599, 601, 603, 605, 607, 609, 611, 613, 615, 617, 619, 621, 623, 625, 627, 629,
631, 633, 635, 637, 639, 641, 643, 645, 647, 649, 651, 653, 655, 657, 659, 661, 663, 665, 667,
669, 671, 673, 675, 677, 679, 681, 683, 685, 687, 689, 691, 693, 695, 697, 699, 701, 703, 705,
707, 709, 711, 713, 715, 717, 719, 721, 723, 725, 727, 729, 731, 733, 735, 737, 739, 741, 743,
745, 747, 749, 751, 753, 755, 757, 759, 761, 763, 765, 767, 769, 771, 773, 775, 777, 779, 781,
783, 785, 787, 789, 791, 793, 795, 797, 799, 801, 803, 805, 807, 809, 811, 813, 815, 817, 819,
821, 823, 825, 827, 829, 831, 833, 835, 837, 839, 841, 843, 845, 847, 849, 851, 853, 855, 857,
859, 861, 863, 865, 867, 869, 871, 873, 875, 877, 879, 881, 883, 885, 887, 889, 891, 893, 895,
897, 899, 901, 903, 905, 907, 909, 911, 913, 915, 917, 919, 921, 923, 925, 927, 929, 931, 933,
935, 937, 939, 941, 943, 945, 947, 949, 951, 953, 955, 957, 959, 961, 963, 965, 967, 969, 971,
973, 975, 977, 979, 981, 983, 985, 987, 989, 991, 993, 995, 997, 999]
```

Q 1-C



The screenshot shows a code editor with a dark theme. The top bar has two tabs: "Get Started" and "Q 1-C.py". The file path is "C: > Users > Windows.10 > Desktop > Q 1-C.py > ...". The code is as follows:

```
1 L=['Network','Math','Programming','Physics','Music']
2 for i in range(len(L)):
3     if L[i][0]=='P':
4         print(L[i])
```



The screenshot shows a terminal window with a dark theme. The top bar has four tabs: "PROBLEMS", "OUTPUT", "DEBUG CONSOLE", and "TERMINAL". The terminal output is as follows:

```
قاعار\tempCodeRunnerFile.python"
Programming
Physics
```

Q 1-D

```
Get Started Q 1-D.py x
C: > Users > Windows.10 > Desktop > Q 1-D.py > ...
1 s={x:x*x for x in range(1,11)}
2 print(s)
```

```
PS C:\Users\Windows.10\Desktop\ةس لجل اة ع بارل > python -u "c:\Users\Windows.10\
{1: 1, 2: 4, 3: 9, 4: 16, 5: 25, 6: 36, 7: 49, 8: 64, 9: 81, 10: 100}
```

Q 2

```
Get Started Q 2.py x
C: > Users > Windows.10 > Desktop > Q 2.py > d
1 def d(num):
2     d1=list()
3     while num!=0:
4         i=num%2
5         num//=2
6         d1.append(i)
7     d1.reverse()
8     return d1
9
10 num=int(input('enter num'))
11 s=d(num)
12 for i in s:
13     print(i,end="")
14
```

```
enter num33
100001
```

Q 3

```
Q 3.py x
C: > Users > Windows10 > Desktop > Q 3.py
1  n=input("input yourname")
2  file="layla.txt"
3  inf=open(file,'r')
4  outf=open("a.txt","w")
5  s=[line.rstrip().split('=') for line in inf]
6  inf.close()
7
8  b=0
9  for i in s:
10     print(i[0])
11     a=input()
12     if a==i[-1]:
13         b+=1
14 print(n)
15 print(b)
16
17 outf.write(n)
18 outf.write(str(b))
19 outf.close()
```

VISUAL STUDIO أعطى خطأ لذلك قمت بتشغيله في IDLE

```
n=input("input yourname")
file="layla.txt"
inf=open(file,'r')
outf=open("a.txt","w")
s=[line.rstrip().split('=') for line in inf]
inf.close()

b=0
for i in s:
    print(i[0])
    a=input()
    if a==i[-1]:
        b+=1
print(n)
print(b)

outf.write(n)
outf.write(str(b))
outf.close()

14
11+11
22
3+3
6
4+4
8
9+9
18
4+4
8
20+50
100
2+5
7
1+4
5
7+3
10
33+2
35
20+1
21
55+10
2
4+8
12
2+3
5
4+2
6
1+5
6
10+10
20
layla
18
>>>
```