

الاسم: أبي إبراهيم

السؤال الأول:

A-

```
1 students = ['Obyee', 'Anas', 'Reem', 'Noura', 'Sami']
2 student = input('Enter your name: ')
3 if student in students:
4     print('You are graduated.')
5 else:
6     print('You are not graduated.')
7
```

```
Enter your name: Obyee
You are graduated.
```

```
Enter your name: Rami
You are not graduated.
```

B-

```
1 odd_numbers = [i for i in range(1,1000,2)]
2 print(odd_numbers)
3
```

```
[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]
```

C-

```
1 L = ['Network', 'Math', 'Programming', 'Physics', 'Music']
2 for w in L:
3     if(w[0] == 'P'):
4         print(w)
5
```

## Programming Physics

D-

```
1 data = {x:x*x for x in range(1,11)}
2 print(data)
3
```

```
{1: 1, 2: 4, 3: 9, 4: 16, 5: 25, 6: 36, 7: 49, 8: 64, 9: 81, 10: 100}
```

السؤال الثاني:

```
1 number = int(input('Enter a number: '))
2 binary = []
3 while number > 0:
4     binary.append(number%2)
5     number=number//2
6 binary.reverse()
7 for i in range(len(binary)):
8     print(binary[i], end='')
9
```

```
Enter a number: 20
10100
```

```
Enter a number: 9
1001
```

### السؤال الثالث:

```

1  questions = []
2  answers = []
3  f = open('questions_answers.txt')
4  content = f.read()
5  lines = content.split('\n')
6  f.close()
7
8  for line in lines:
9      q_a = line.split(':')
10     questions.append(q_a[0])
11     answers.append(q_a[1])
12
13     count = len(questions)
14
15     name = input('Enter Your name: ')
16     print('Please Answer Y or N')
17     mark = 0
18
19     for i in range(count):
20         question = questions[i]
21         answer = answers[i]
22         student_answer = input(question+". (Y or N)? ")
23         if student_answer==answer:
24             mark+=1
25
26     print('Your mark:', mark, '/', count)
27
28     f = open('marks.txt', 'a')
29     f.write("{} : {}\n".format(name, mark))
30

```

### ملف الأسئلة:

```

1  1+1=2?:Y
2  1+2=2?:N
3  1*1=2?:N
4  1*2=2?:Y
5  2+1=4?:N
6  2+2=4?:Y
7  2*1=4?:N
8  2*2=4?:Y

```

```
Enter Your name: Obyee
Please Answer Y or N
1+1=2?. (Y or N)? Y
1+2=2?. (Y or N)? N
1*1=2?. (Y or N)? N
1*2=2?. (Y or N)? Y
2+1=4?. (Y or N)? Y
2+2=4?. (Y or N)? Y
2*1=4?. (Y or N)? Y
2*2=4?. (Y or N)? Y
Your mark: 6 / 8
```

ملف النتائج:

1	Obyee : 6
2	