الطلب A

```python
students=['lama','karam','sara','ali','isber']
s=input('enter your name:')
if s in students:
    print("graduated")
else:
    print("not graduated")
```

```
enter your name:lama
graduated
>>>
```

الطلب B

```python
oddnumber=[x for x in range(1,1000) if x%2!=0]
print(oddnumber)
```

```
[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]
```

الطلب C

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

```
Programming
Physics
>>>
```

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

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

السؤال الثاني:

```
File  Edit  Format  Run  Options  Window  Help
i=int(input('enter number'))
b=[]
while True:
    b.append(str(i%2))
    i//=2
    if i==0:
        break
b.reverse()
r=''.join(b)
print(r)
```

```
>>> enter number14
1110
```

السؤال الثالث:

ملف القراءة:

lama.txt - Notepad

File Edit Format View Help

```
2>1=true
2<1=false
"i" in "hi"=true
3>1=true
4>1=true
5>1=true
6>1=true
4>5=flase
4>6=flase
4>7=false
4>8=false
```

```
name=input("enter your name")
infile=open("lama.txt",'r')
l=infile.readlines()
infile.close()
n=0
print("anser true or false")
for i in l:
    q=i.rstrip().split('=')
    print(q[0])
    a=input()
    if a==q[1]:
        n+=1
print("user name:",name,"result:", n)
outfile=open("resault.txt",'w')
outfile.writelines(name)
outfile.writelines("\n")
outfile.writelines(str(n))
outfile.close()
```

```
enter your namelama
anser true or false
2>1
true
2<1
false
"i" in "hi"
true
3>1
true
4>1
true
5>1
true
6>1
true
4>5
false
4>6
flase
4>7
false
4>8
false
user name: lama result: 10
```

ملف الكتابة:

resault.txt - Notepad

File   Edit   Format   View   Help

lama
10