

الطالب: أحمد محمد عامر خربوطلي

الرقم الجامعي: ١٦٨٦

رقم الوظيفة: الأولى

Question 1-A:

```
list = ['ahmad','abd','hosam','samer','sara']
name = input('Enter your name: ')
if name in list:
    print("passed")
else:
    print("field")
```

result:

```
Enter your name: ahmad
passed
```

```
Enter your name: sami
field
```

Question 1-B:

```
list=[x for x in range(0,1001) if x % 2 != 0]
print(list)
```

result:

```
[1, 3, 5, 7, 9, 11, 13, 15, 17, 19, 21, 23, 25, 27, 29, 31, 3
...
977, 979, 981, 983, 985, 987, 989, 991, 993, 995, 997, 999]
```

Question 1-C:

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

Result:

Programming  
Physics

Question 1-D:

```
square_dict = {num: num*num for num in range(1, 11)}  
print(square_dict)
```

result:

```
{1: 1, 2: 4, 3: 9, 4: 16, 5: 25, 6: 36, 7: 49, 8: 64, 9: 81, 10: 100}  
  
Process finished with exit code 0
```

Question 2: Convert from binary to decimal

```
binary = input('Enter 8 bits in binary system: ')  
list = list(binary)  
ans = 0  
for i in range(len(list)):  
    digit = list.pop()  
    if digit == '1':  
        ans = ans + pow(2,i)  
print('The decimal value of the number is: ',ans)
```

result:

```
Enter 8 bits in binary system: 11110000  
The decimal value of the number is: 240  
  
Enter 8 bits in binary system: 1111  
The decimal value of the number is: 15
```

Question 3:

```
file = open("textFile.txt", "r")
lines = file.read().split('\n')
x = 0
y = 0
op = ""
dic = {}
mark = 0
total = 0
for index, line in enumerate(lines):
    i = index + 1
    print(line)
    attr = line.split(' ')
    if i % 5 == 1:
        x = int(attr[1])
        y = int(attr[3])
        op = attr[2]
        dic.clear()
    else:
        dic.update({str(attr[0][0]):attr[1]})
    if i % 5 == 0:
        total += 1
        while True:
            ans = input("Enter your answer (A, B, C, D): ")
            if ans in dic:
                if op == '+':
                    correct = x + y
                    if int(dic[ans]) == correct:
                        mark = mark + 1
                if op == '*':
                    correct = x * y
                    if int(dic[ans]) == correct:
                        mark = mark + 1
                if op == '-':
                    correct = x - y
                    if int(dic[ans]) == correct:
                        mark = mark + 1
                if op == '/':
                    correct = x / y
                    if int(dic[ans]) == correct:
                        mark = mark + 1
            break
print(mark)
```

textFile.txt

Q1:  $5 + 7 = ?$   
A: 10  
B: 12  
C: 11  
D: 9  
Q2:  $0 + 7 = ?$   
A: 7  
B: 8  
C: 9  
D: 10  
Q3:  $3 + 7 = ?$   
A: 10  
B: 12  
C: 11  
D: 9  
Q4:  $10 + 7 = ?$   
A: 17  
B: 11  
C: 10  
D: 5  
Q5:  $5 + 0 = ?$   
A: 5  
B: 6  
C: 7  
D: 8  
Q6:  $4 + 3 = ?$   
A: 7  
B: 8  
C: 9  
D: 10  
Q7:  $1 * 2 = ?$   
A: 3  
B: 2  
C: 1  
D: 8  
Q8:  $5 * 7 = ?$   
A: 10  
B: 25  
C: 35  
D: 40  
Q9:  $1 * 4 = ?$   
A: 5  
B: 4  
C: 2  
D: 1  
Q10:  $1 * 1 = ?$   
A: 2  
B: 0  
C: 1  
D: 3  
Q11:  $1 - 1 = ?$   
A: 0  
B: -1  
C: 4  
D: 3  
Q12:  $5 + 7 = ?$   
A: 10

B: 12  
C: 11  
D: 9  
Q13:  $0 + 7 = ?$   
A: 7  
B: 8  
C: 9  
D: 10  
Q14:  $3 + 7 = ?$   
A: 10  
B: 12  
C: 11  
D: 9  
Q15:  $10 + 7 = ?$   
A: 17  
B: 11  
C: 10  
D: 5  
Q16:  $5 + 0 = ?$   
A: 5  
B: 6  
C: 7  
D: 8  
Q17:  $4 + 3 = ?$   
A: 7  
B: 8  
C: 9  
D: 10  
Q18:  $1 * 2 = ?$   
A: 3  
B: 2  
C: 1  
D: 8  
Q19:  $5 * 7 = ?$   
A: 10  
B: 25  
C: 35  
D: 40  
Q20:  $1 * 4 = ?$   
A: 5  
B: 4  
C: 2  
D: 1

**Result:**

Enter your name: *ahmad*

Q1:  $5 + 7 = ?$

A: 10

B: 12

C: 11

D: 9

Enter your answer (A, B, C, D): *B*

Q2:  $0 + 7 = ?$

A: 7

B: 8

C: 9

D: 10

Enter your answer (A, B, C, D): *A*

....

بعد تنفيذ الكود وإدخال الإجابات =، اخترنا ٤ إجابات خاطئة من أصل ٢٠ وكانت النتيجة التالية:

File	Line	Content
homework.py	1	ahmad
result.txt	2	your result is: 16/20