

Artificial Intelligence Lab Work (1)  
レポート解答用紙 (Report Answer Sheet)

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問 1.

Q1 Write a program to perform the following calculations and find the answers.

$$\sum_{x=1}^{10000} x$$

✓  
0  
giây

```
[1] def sum(start, end):  
    sum = 0  
    for i in range(start, end+1):  
        sum += i  
    return sum  
  
print(sum(1, 10000))
```

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問 2.

Q2 Write a program to perform the following calculations and find the answers.

$$\sum_{x=1}^{100} (x^3 + 3x^2 + 5x + 9)$$

✓  
0  
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```
[2] def cal_equation(x):  
    return pow(x,3) + 3*pow(x,2) + 5*x + 9  
  
def sum(start, end):  
    sum = 0  
    for i in range(start, end+1):  
        sum += cal_equation(i)  
    return sum  
  
print(sum(1, 100))
```

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問 3.

Q3 Write a function "reverse" that returns the given list in reverse order

✓  
0  
giây

```
[3] def reverse(xlist):  
    new_list = []  
    for i in range(len(xlist)-1, -1, -1):  
        new_list.append(xlist[i])  
    return new_list
```

✓  
0  
giây

```
[5] reverse([10, 20, 30, 40, 50])  
  
[50, 40, 30, 20, 10]
```

✓  
0  
giây

```
[6] reverse(["cat", "dog", "lion", "tiger"])  
  
['tiger', 'lion', 'dog', 'cat']
```