

TASK REPORT
ALGORITHMS AND DATA STRUCTURE
WEEK 2



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TASK

1. Rubic for Prime or No

```
exercsie > 📄 coba1.py > ...
1  # a program that checks whether a number is prime or not prime
2  num = int(input("Input number: "))
3
4  # check if the number is less than or equal to 1 or negatif number
5  if num <= 1:
6      print(num, "is not a prime number")
7  else:
8      # Checking whether a number is divisible by any number other than 1 and itself
9      for i in range(2, num):
10         if (num % i) == 0:
11             print(num, "is not a prime number")
12             break
13         else:
14             print(num, "is a prime number")
15
16 print("\n--- L200234275 ---")
```

PS D:\Semester 4\Algorithm_and_structuredata> & C:/Users/Acer/AppData/Local/Programs/Python/Python311/python.exe "d:/Semester 4/Algorithm_and_structuredata/exercsie/coba1.py"

Input number: 4
4 is not a prime number

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PS D:\Semester 4\Algorithm_and_structuredata> & C:/Users/Acer/AppData/Local/Programs/Python/Python311/python.exe "d:/Semester 4/Algorithm_and_structuredata/exercsie/coba1.py"

Input number: -1
-1 is not a prime number

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PS D:\Semester 4\Algorithm_and_structuredata> & C:/Users/Acer/AppData/Local/Programs/Python/Python311/python.exe "d:/Semester 4/Algorithm_and_structuredata/exercsie/coba1.py"

Input number: 97
97 is a prime number

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2. Rubic for Remove Repetitive Items

```
exercsie > 📄 coba2.py > ...
1  # a program in Python to remove repetitive items from a list
2
3  # Original list
4  number = [2,2,3,4,4,4,5,5,6,7]
5
6  # Convert the list to a set
7  yet_number = set(number)
8
9  # Print the set
10 print(yet_number)
11
12 print("\n--- L200234275 ---")
```

PS D:\Semester 4\Algorithm_and_structuredata> & C:/Users/Acer/AppData/Local/Programs/Python/Python311/python.exe "d:/Semester 4/Algorithm_and_structuredata/exercsie/coba2.py"

{2, 3, 4, 5, 6, 7}

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3. Rubic for Sum All Number

```
exercsie > cobra3.py > ...
1  # a program to calculate the sum of all number between 1 and a given number (input).
2
3  # Get the input
4  n = int(input("Input number: "))
5
6  # Initialize the sum
7  sum = 0
8
9  # Check if the number is less than or equal to 0
10 if n <= 0:
11     print("Please enter a positive number greater than zero.")
12 else:
13     # Loop the number from 1 to n
14     for i in range(1, n + 1):
15         sum += i
16
17     # Print the sum
18     print("Sum of numbers from 1 to", n, "is:", sum)
19
20 print("\n--- L200234275 ---")
```

```
PS D:\Semester 4\Algorithm_and_structuredata> & C:/Users/Acer/AppData/Local/Programs/Python/Python311/python.exe "d:/Semester 4/Algorithm_and_structuredata/exercsie/coba3.py"
Input number: -1
Please enter a positive number greater than zero.

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PS D:\Semester 4\Algorithm_and_structuredata> & C:/Users/Acer/AppData/Local/Programs/Python/Python311/python.exe "d:/Semester 4/Algorithm_and_structuredata/exercsie/coba3.py"
Input number: 0
Please enter a positive number greater than zero.

--- L200234275 ---
PS D:\Semester 4\Algorithm_and_structuredata> & C:/Users/Acer/AppData/Local/Programs/Python/Python311/python.exe "d:/Semester 4/Algorithm_and_structuredata/exercsie/coba3.py"
Input number: 9
Sum of numbers from 1 to 9 is: 45

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```