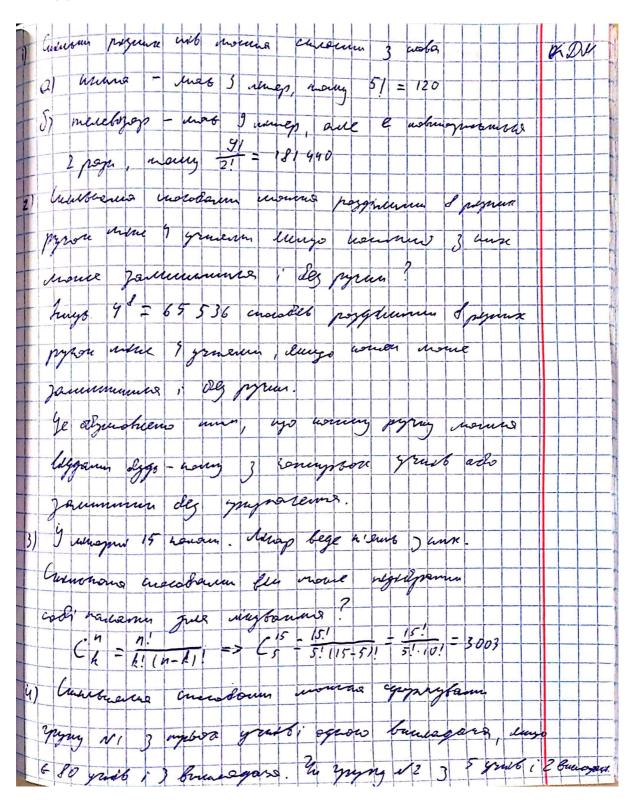
КДМ Лаба 2 Онищенко Олег КНТ-122

Завдання 1



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Завдання 2

Код Програми

 $\hbox{\it\# Import the combinations_with_replacement function from itertools module from itertools import combinations_with_replacement}$

```
# Print an empty line
print("")
# Get input for N and convert it to an integer
n = int(input("Введіть N: "))
# Get input for K and convert it to an integer
k = int(input("Введіть K: "))
# Print an empty line
print("")
# Generate all possible combinations with replacement of integers 1 to N with length K
combinations = combinations_with_replacement(range(1, n+1), k)
# Initialize a count variable to keep track of the number of combinations
count = 0
# Loop through each combination
for combination in combinations:
    # Increment the count variable
   count += 1
    # Convert the combination to a string and join the individual integers into a single string
    combination_str = "".join(str(i) for i in combination)
    # Print the count and the combination as a string
    print(f"{count} - {combination_str}")
# Print the total number of combinations
print(f"\n3агальна кількість комбінацій = \{count\}")
# Print an empty line
print("")
```

Блок Схема

