UNIVERSITAS AMIKOM YOGYAKARTA

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Handout Pemrograman Terstruktur

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TASK:

1. An organization is hiring new employees. There were ten candidates. Criteria for passing applicants:
   For Women : Minimum height is 160 cm and maximum weight is 65 kg
   For Men : Minimum height is 165 cm and maximum weight is 80 kg
   Create an algorithm to count how many applicants passed.
2. Create an algorithm to determine the buyer's total cost, the amount paid, and the change. The seller enters the product's name, the quantity of units purchased, and the product's unit price.
3. Create an algorithm to print this pattern:
   Height: 5

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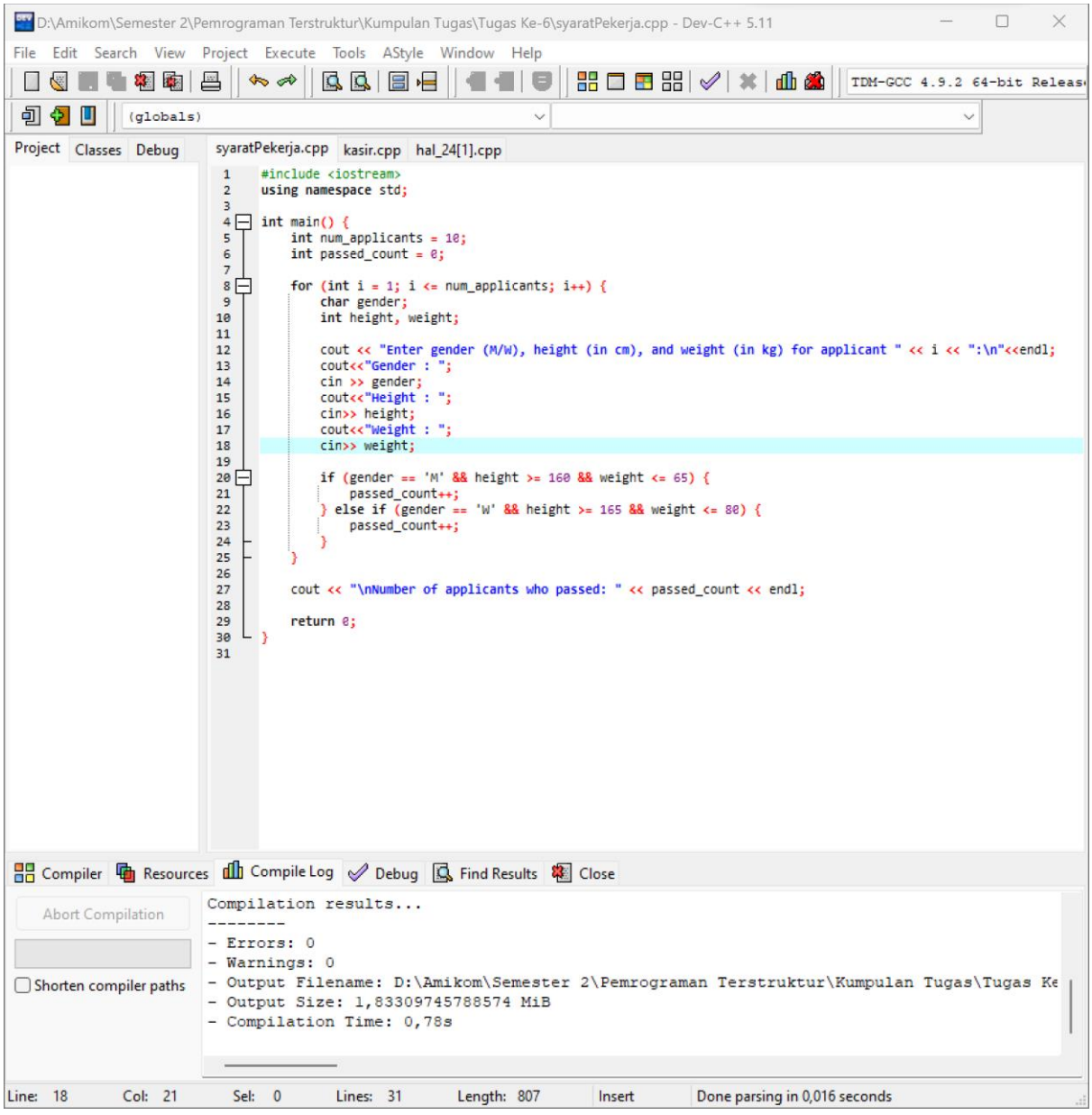
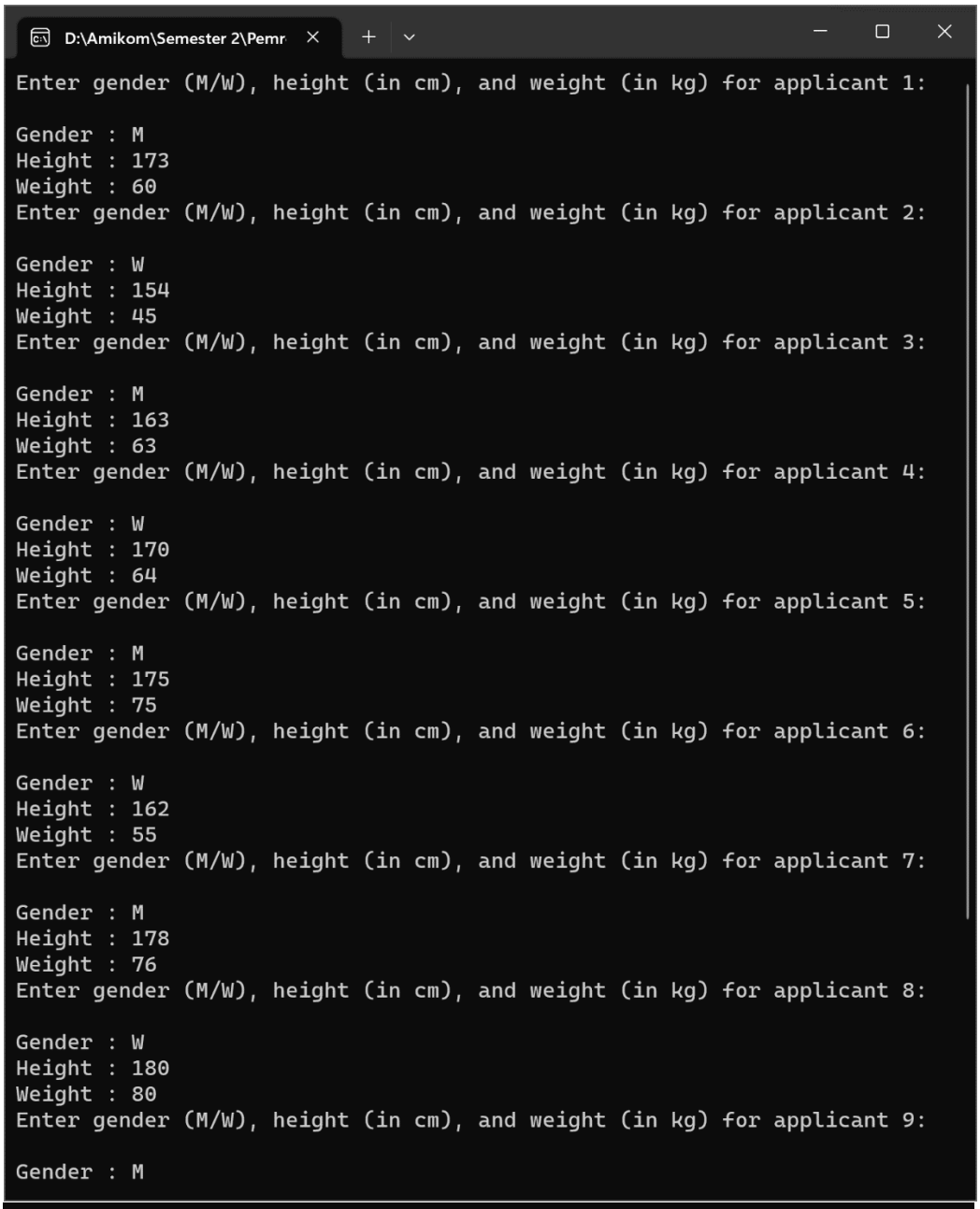
ANSWER:

1. Algorithm to count how many applicants passed.

Code:

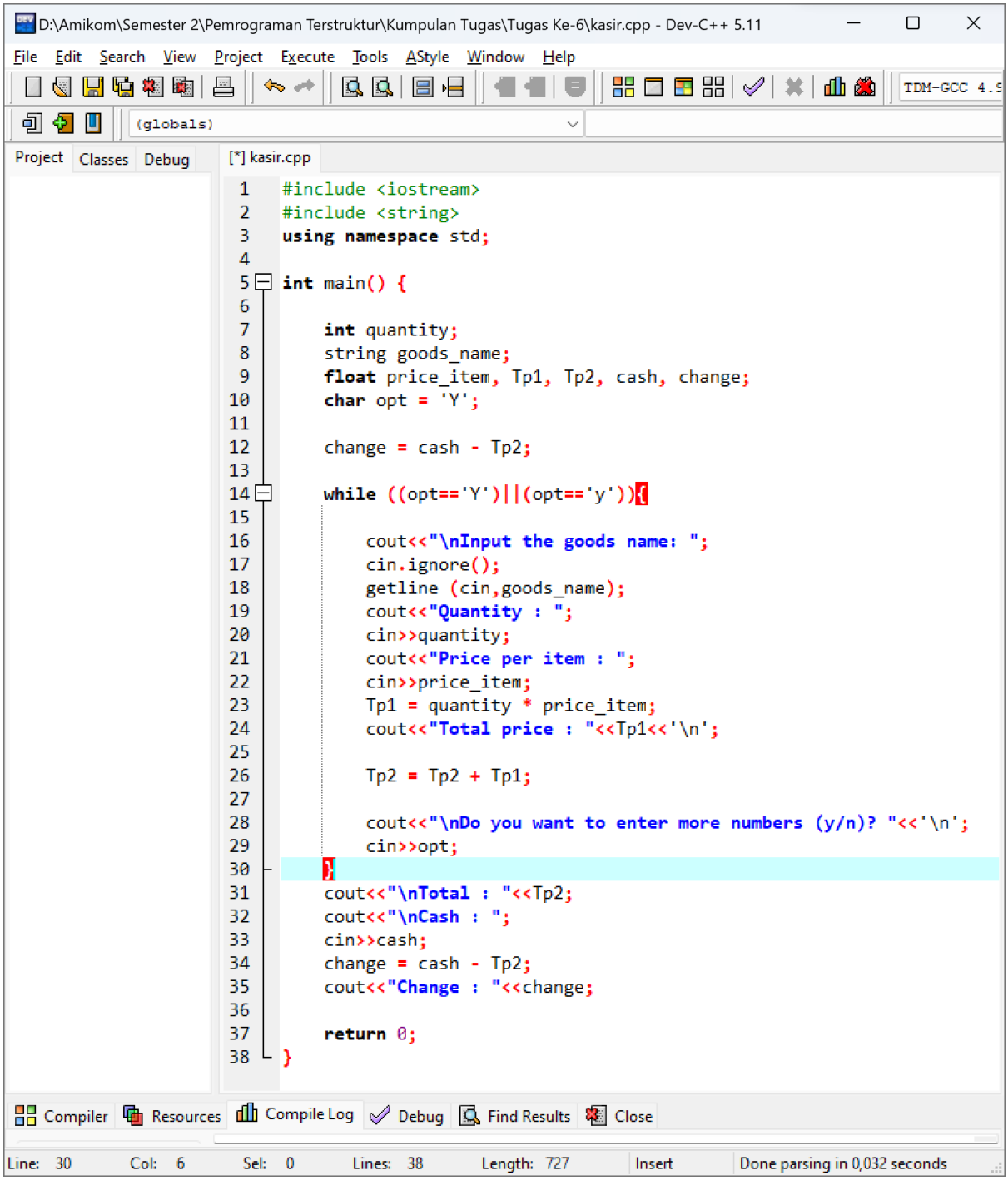


Result:

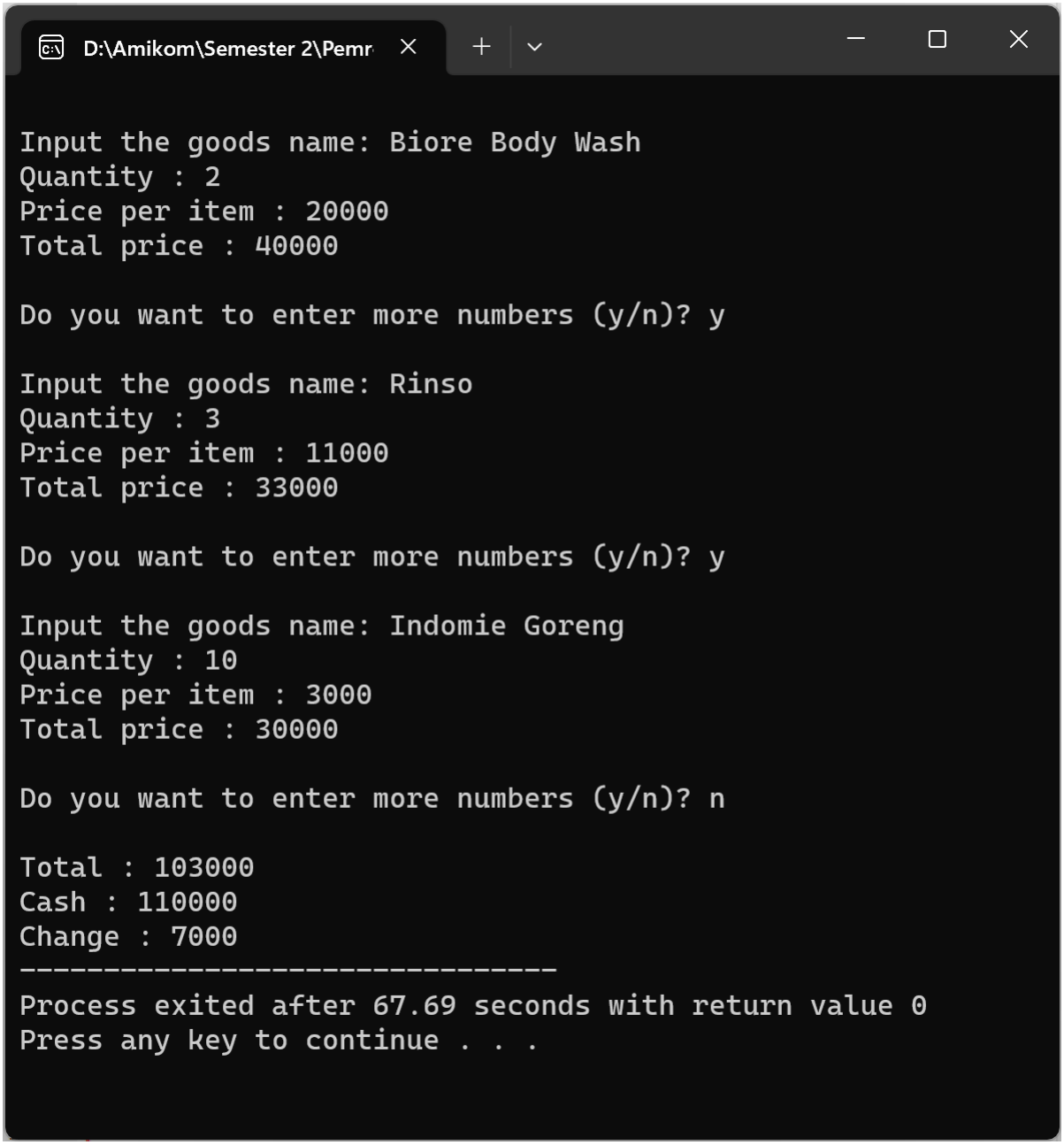

D:\Amikom\Semester 2\Pemr
Enter gender (M/W), height (in cm), and weight (in kg) for applicant 1:
Gender : M
Height : 173
Weight : 60
Enter gender (M/W), height (in cm), and weight (in kg) for applicant 2:
Gender : W
Height : 154
Weight : 45
Enter gender (M/W), height (in cm), and weight (in kg) for applicant 3:
Gender : M
Height : 163
Weight : 63
Enter gender (M/W), height (in cm), and weight (in kg) for applicant 4:
Gender : W
Height : 170
Weight : 64
Enter gender (M/W), height (in cm), and weight (in kg) for applicant 5:
Gender : M
Height : 175
Weight : 75
Enter gender (M/W), height (in cm), and weight (in kg) for applicant 6:
Gender : W
Height : 162
Weight : 55
Enter gender (M/W), height (in cm), and weight (in kg) for applicant 7:
Gender : M
Height : 178
Weight : 76
Enter gender (M/W), height (in cm), and weight (in kg) for applicant 8:
Gender : W
Height : 180
Weight : 80
Enter gender (M/W), height (in cm), and weight (in kg) for applicant 9:
Gender : M
Height : 185
Weight : 85
Enter gender (M/W), height (in cm), and weight (in kg) for applicant 10:
Gender : W
Height : 156
Weight : 56
Number of applicants who passed: 4
Process exited after 261.4 seconds with return value 0
Press any key to continue . . .

2. Algorithn to determine buyer's total cost, the amount paid, and the change.

Code:

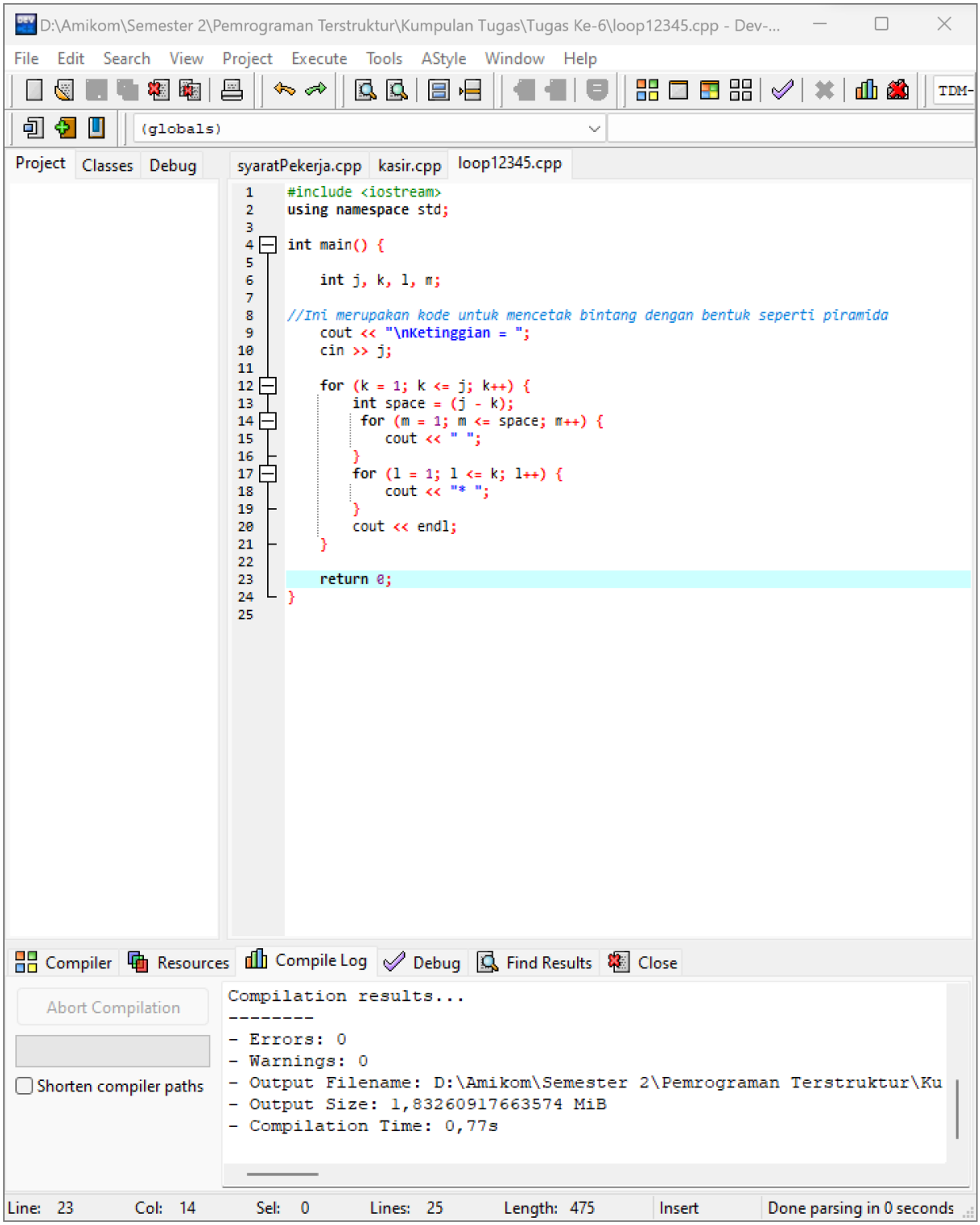


Result:


D:\Amikom\Semester 2\Pemr
Input the goods name: Biore Body Wash
Quantity : 2
Price per item : 20000
Total price : 40000
Do you want to enter more numbers (y/n)? y
Input the goods name: Rinso
Quantity : 3
Price per item : 11000
Total price : 33000
Do you want to enter more numbers (y/n)? y
Input the goods name: Indomie Goreng
Quantity : 10
Price per item : 3000
Total price : 30000
Do you want to enter more numbers (y/n)? n
Total : 103000
Cash : 110000
Change : 7000
Process exited after 67.69 seconds with return value 0
Press any key to continue . . .

3. Algorithm to print pattern

Code:



Result:


D:\Amikom\Semester 2\Pemr
Ketinggian = 5
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Process exited after 2.335 seconds with return value 0
Press any key to continue . . .