BAHASA PROGRAM

n = int(input("Masukkan ukuran matriks (n): "))

print("Matriks A (ukuran", n, "x", n, "):")

matrix\_a = []

for i in range(n):

row = []

for j in range(n):

row.append(int(input("Masukkan nilai Matriks A baris " + str(i+1) + ", kolom " + str(j+1) + ": ")))

matrix\_a.append(row)

print("\nMatriks B (ukuran", n, "x", n, "):")

matrix\_b = []

for i in range(n):

row = []

for j in range(n):

row.append(int(input("Masukkan nilai Matriks B baris " + str(i+1) + ", kolom " + str(j+1) + ": ")))

matrix\_b.append(row)

matrix\_c = []

for i in range(n):

row = []

for j in range(n):

total = 0

for k in range(n):

total += matrix\_a[i][k] \* matrix\_b[k][j]

row.append(total)

matrix\_c.append(row)

transpose\_a = [[matrix\_a[j][i] for j in range(n)] for i in range(n)]

transpose\_b = [[matrix\_b[j][i] for j in range(n)] for i in range(n)]

matrix\_d = []

for i in range(n):

row = []

for j in range(n):

row.append(transpose\_a[i][j] + transpose\_b[i][j])

matrix\_d.append(row)

print("\nMatriks A:")

for row in matrix\_a:

print("[", end="")

for i in range(n):

print(row[i], end="")

if i != n - 1:

print(" ", end="")

print("]", end="")

print()

print("\nMatriks B:")

for row in matrix\_b:

print("[", end="")

for i in range(n):

print(row[i], end="")

if i != n - 1:

print(" ", end="")

print("]", end="")

print()

print("\nMatriks C (Hasil perkalian matriks A dan B):")

print("", end="")

for i in range(n):

if i != 0:

print("", end="")

print("[", end="")

for j in range(n):

print(matrix\_c[i][j], end="")

if j != n - 1:

print(" ", end="")

print("]", end="")

if i != n - 1:

print()

print()

print("\nMatriks D (Hasil penjumlahan matriks A transpose dan B transpose):")

for row in matrix\_d:

print("[", end="")

for i in range(n):

print(row[i], end="")

if i != n - 1:

print(" ", end="")

print("]", end="")

print()