TUGAS 6 ALPRO 2

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1. Perkalian Matriks A dan Matriks B

```
#include <iostream>
using namespace std;
int main()
{
   // Deklarasi varibel
   int A[10][10], B[10][10], C[10][10], D[10][10];
   cout << "\nRobby Izhar Ramadhana";</pre>
   cout << "\n17111255";
   cout << endl
      << endl;
   A[0][0] = 2;
   A[0][1] = 3;
   A[0][2] = 6;
   A[1][0] = 4;
   A[1][1] = 7;
   A[1][2] = 8;
   // Inisialisasi matriks B
   B[0][0] = 3;
   B[0][1] = 5;
   B[1][0] = 2;
   B[1][1] = 4;
   B[2][0] = 8;
   B[2][1] = 6;
   // Proses perkalian matriks A dan B
   C[0][0] = A[0][0] * B[0][0] + A[0][1] * B[1][0] + A[0][2] * B[2][0];
   C[0][1] = A[0][0] * B[0][1] + A[0][1] * B[1][1] + A[0][2] * B[2][1];
   C[1][0] = A[1][0] * B[0][0] + A[1][1] * B[1][0] + A[1][2] * B[2][0];
   C[1][1] = A[1][0] * B[0][1] + A[1][1] * B[1][1] + A[1][2] * B[2][1];
   // Menampilkan matriks A
   cout << "\nMatriks A :\n"</pre>
      << endl;
   cout << A[0][0] << "\t" << A[0][1] << "\t" << A[0][2] << endl;
   cout << A[1][0] << "\t" << A[1][1] << "\t" << A[1][2] << endl;
   // Menampilkan matriks B
   cout << "\nMatriks B :\n"</pre>
      << endl;
   cout << B[0][0] << "\t" << B[0][1] << endl;
   cout << B[1][0] << "\t" << B[1][1] << endl;
```

```
cout << B[2][0] << "\t" << B[2][1] << endl;
   // menampilkan hasil kali matriks A dan B
   cout << "\nHasil Matriks A x Matriks B :\n"
      << endl;
   cout << C[0][0] << "\t" << C[0][1] << endl;
   cout << C[1][0] << "\t" << C[1][1] << endl;
   cout << endl;</pre>
  return 0;
}
2. Program Input Mahasiswa
#include <iostream>
#include <string>
using namespace std;
int main()
  string nama[5];
  int nilai_angka[5];
  string nilai_huruf;
  string kelas[5];
  cout << "Masukan Nama Mahasiswa: " << endl
     << endl;
  int x = 1;
  for (int i = 0; i < 5; i++)
     cout << "\nMasukan Nama ke-" << x << "\n";
     cin >> nama[i];
     cout << "\nMasukan Kelas : "</pre>
        << "\n";
     cin >> kelas[i];
     cout << "\nMasukan Nilai : "
        << "\n";
     cin >> nilai_angka[i];
     x++;
  }
  cout << "\n";
  cout << "DATA MAHASISWA" << endl;</pre>
  int y = 1;
  for (int i = 0; i < 5; i++)
     if (nilai\_angka[i] >= 75)
```

```
{
       nilai_huruf = "A";
    else if (nilai_angka[i] >= 60 && nilai_angka[i] < 75)
       nilai_huruf = "B";
    else if (nilai_angka[i] >= 40 && nilai_angka[i] < 60)
       nilai_huruf = "C";
    else if (nilai_angka[i] >= 20 && nilai_angka[i] < 40)
       nilai_huruf = "D";
    else if (nilai_angka[i] >= 0 && nilai_angka[i] < 20)
       nilai_huruf = "E";
    cout << "No." << y << " Nama = " << nama[i] << " Kelas = " << kelas[i] << " Nilai Angka
= " << nilai_angka[i] << " Nilai Huruf = " << nilai_huruf << endl;
    cout << "\n";
    y++;
  }
}
```