|  |
| --- |
| Pertemuan 6 |
| // Nanang Tri Nur Wicaksono  // 231011700253  #include<iostream>  #include<iomanip>  #include <sstream>  using namespace std;  //function cek panjang karakter di tipe data integer  int count\_numbers ( int num) {  int count =0;  while (num !=0) {  count++;  num/=10;  }  return count;  }  int count\_double (double num){  stringstream ss;  ss << num;  string nilaiString = ss.str();  return nilaiString.length();  }  int main(){  //variable  string nim,nama,grade,sks,mata\_kuliah;  int hadir, tugas, UTS, UAS;  double bHadir, bTugas, bUTS, bUAS, nilai;    //inputan  cout << "Masukkan Nama Mata Kuliah : ";  cin >> mata\_kuliah;  cout << "Masukkan SKS : ";  cin >> sks;  cout << "Masukkan Jumlah Kehadiran : ";  cin >> hadir;  cout << "Masukkan Nilai Tugas : ";  cin >> tugas;  cout << "Masukkan Nilai UTS : ";  cin >> UTS;  cout << "Masukkan Nilai UAS : ";  cin >> UAS;  //hitung nilai  bHadir = (hadir / 14) \* 10;  bTugas = tugas \* 0.2;  bUTS = UTS \* 0.3;  bUAS = UAS \* 0.4;  //hasil hitung nidlai  nilai = bHadir + bTugas + bUTS + bUAS;    //cek nilai  if(nilai >= 80)  grade = 'A';  else if(nilai >= 70 && nilai < 80)  grade = 'B';  else if(nilai >= 60 && nilai < 70)  grade = 'C';  else if(nilai >= 50 && nilai < 60)  grade = 'D';  else{  grade = 'E';  }    //array NIM & Nama  string arr\_siswa[9][2] = {  {"231011700253","Nanang Tri Nur Wicaksono"},  {"231011700254","Dea Nandita"},  {"231011700255","Henny Anastasia"},  {"231011700256","Selvy Amelia"},  {"231011700257","Eriska"},  {"231011700258","Vincent"},  {"231011700259","Amelinda Dewi P"},  {"231011700260","William"},  {"231011700261","Felicia"},  };    //cek panjang karakter dari tipe data string  int length = sizeof(arr\_siswa) / sizeof(arr\_siswa[0]);    cout << "-------------------------------------------------------------------------------------------------" << endl << endl;  //output  cout << "Nama Mata Kuliah"<< setw(1) << " : " << mata\_kuliah << endl;  cout << "SKS" << setw(16) << " : " << sks << endl;  cout << "-------------------------------------------------------------------------------------------------" << endl;  cout << "NIM" << setw(nim.length()+12) << "|";  cout << "NAMA" << setw(nama.length()+24) << "|";  cout << "JML HADIR" << setw(3) << "|";  cout << "TUGAS" << setw(3) << "|";  cout << "UTS" << setw(3) << "|";  cout << "UAS" << setw(3) << "|";  cout << "NILAI ANGKA" << setw(3) << "|";  cout << "GRADE" << setw(3) << "|"<<endl;  cout << "-------------------------------------------------------------------------------------------------" << endl;  for(int i=0;i<length;i++){  int n\_hadir = 12 - count\_numbers(hadir);  int n\_tugas = 8-count\_numbers(tugas);  int n\_UTS = 6-count\_numbers(UTS);  int n\_UAS = 6-count\_numbers(UAS);  int n\_nilai = 14-count\_double(nilai);    cout << arr\_siswa[i][0] << setw(arr\_siswa[i][0].length()-9) << "|";  cout << arr\_siswa[i][1] << setw(28-arr\_siswa[i][1].length()) << "|";  cout << hadir << setw(n\_hadir) << "|";  cout << tugas << setw(n\_tugas) << "|";  cout << UTS << setw(n\_UTS) << "|";  cout << UAS << setw(n\_UAS) << "|";  cout << nilai << setw(n\_nilai) << "|";  cout << grade << setw(8-grade.length()) << "|"<<endl;  }  cout << "-------------------------------------------------------------------------------------------------" << endl;  cout << "Nilai Rata - rata adalah " << nilai <<" dengan Grade : " << grade << endl;  cout << "-------------------------------------------------------------------------------------------------" << endl;    } |
|  |