```
(globals)
 Project Classes Debug
                                     231011700253 Nanang Tri Nur Wicaksono
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// Nanang Tri Nur Wicaksono
// 231011700253
#include <iostream>
#include <cstdlib>
#include <cmath>
#include <iomanip>
using namespace std;
int pil;
char pilihan[5];
double panjang, lebar, hasil;
// menu
void menu() {
  system("cls");
  cout << "\n\t========;
  cout << "\n\t" << "231011700253" << setw(30) << "Nanang Tri Nur Wicaksono";
  cout << "\n\t========";
  cout << "\n\t| [1] Hitung Luas";</pre>
  cout << "\n\t| [2] Hitung Keliling";</pre>
  cout << "\n\t| [3] Hitung Panjang Diagonal";</pre>
  cout << "\n\t| [4] Keluar Program";</pre>
  cout << "\n\t=========;;
  cout << "\n\tPilih Nomor : ";</pre>
}
// back to menu
```

```
void backMenu(){
      char status;
      cout << "\tKembali ke menu utama [y/n]: ";
      cin >> status;
      if(status == 'y')
            menu();
      else
            backMenu();
}
// luas
void hitungLuas() {
 system("cls");
 cout << "\n\t" << setw(35) << "Hitung Luas" << setw(35);
 cout << "\n\t=========;;
      cout << "\n\tMasukkan panjang: ";</pre>
 cin >> panjang;
 cout << "\tMasukkan lebar: ";</pre>
 cin >> lebar;
 hasil = panjang * lebar;
 cout << "\tLuas persegi panjang: " << hasil << endl;</pre>
}
// keliling
void hitungKeliling() {
 system("cls");
 cout << "\n\t=========:":
 cout << "\n\t" << setw(35) << "Hitung Keliling" << setw(35);</pre>
 cout << "\n\tMasukkan panjang: ";</pre>
 cin >> panjang;
 cout << "\tMasukkan lebar: ";</pre>
 cin >> lebar;
 hasil = 2 * (panjang + lebar);
 cout << "\tKeliling persegi panjang: " << hasil << endl;</pre>
}
// panjang diagonal
void hitungDiagonal() {
 system("cls");
 cout << "\n\t========";
 cout << "\n\t" << setw(35) << "Panjang Diagonal" << setw(35);</pre>
 cout << "\n\t=========;;
      cout << "\n\tMasukkan panjang: ";</pre>
 cin >> panjang;
  cout << "\tMasukkan lebar: ";
 cin >> lebar;
```

```
hasil = sqrt(panjang * panjang + lebar * lebar);
  cout << "\tPanjang diagonal persegi panjang: " << hasil << endl;</pre>
}
// main default
int main() {
  menu();
  do {
     cin >> pilihan;
     pil = atoi(pilihan);
    switch (pil) {
       case 1:
         hitungLuas();
                                  backMenu();
         break;
       case 2:
         hitungKeliling();
                                  backMenu();
         break;
       case 3:
         hitungDiagonal();
                                  backMenu();
                                  break;
       case 4:
         system("cls");
         cout << "\n\t -- Terimah Kasih -- ";</pre>
         break;
       default:
         menu();
         cout << "\n\t -- Terimah Kasih -- ";
         break;
  } while (pil < 5);
  return 0;
```

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[3] Hitung Panjang Diagonal [4] Keluar Program ====================================		
Pilih Nomor :		
☐ C:\Users\Nanx\Documents\C++ Unpam\uas.exe	_	 ×
Hitung Luas		
Masukkan panjang: 10 Masukkan lebar: 4 Luas persegi panjang: 40		
Kembali ke menu utama [y/n] :		

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 Hitung Keliling		
Masukkan panjang: 10 Masukkan lebar: 5		
Keliling persegi panjang: 30 Kembali ke menu utama [y/n] :		
C:\Users\Nanx\Documents\C++ Unpam\uas.exe		_ ×
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Masukkan lebar: 5 Panjang diagonal persegi panjang: 11.1803 Kembali ke menu utama [y/n] :		

