Nama   : Nazwa Hemalia Putri

Nim   : 1227050103

Kelas   : Teknik Informatika C

1. Buat Program Login password menggunakan konstanta (3 kali ulang) jika salah tidak bisa akses. Jika bisa Login Masuk kedalam Penggajian. Pertanyaan? Apakah akan menghitung gaji lagi

```cpp
// simulate bank deposits and withdrawals

#include <iostream>
using namespace std;

int main()
{
    cout<<"~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~"<<endl;
    cout<<"Nama\t: Nazwa Hemalia Putri"<<endl;
    cout<<"NIM\t: 1227050103"<<endl;
    cout<<"~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~"<<endl<<endl;

    cout<<"\t\tLOGIN AKUN PENGGAJIAN "<<endl;
    cout<<"\t\t----------------------"<<endl<<endl;

    string password_login, user_login;
    string username = "Nazwa";
    string password = "12345";
    string login = "block";
    int i;

    cout << "====================================================\n";
    cout << "Silahkan Login Untuk Melanjutkan Ke Sistem Penggajian\n";
    cout << "====================================================\n\n";
```

```cpp
cout << "Username = ";

cin >> user_login;

cout << "Password = ";

cin >> password_login;


if (user_login == username && password_login == password)



    cout <<endl<< "| Login Berhasil |" << endl<<endl;

    cout <<endl<< "\tSELAMAT DATANG DI SISTEM PENGGAJIAN"<<endl;



    i = 4;

    login = "berhasil";



            char nama[50],gol,istri;

            double nak,hari;

            long total,gaji,pajak,tunjangan,makan,anak;

            int lagi, Y, y;



            menu :
            cout<<"
===================================================="<<endl;
            cout<<" >>>>>>>>>>> SISTEM PENGGAJIAN KARYAWAN <<<<<<<<<<<<"<<endl;
            cout<<"
===================================================="<<endl<<endl;
            cout<<" Masukan Nama Karyawan : "<<nama;
            cin >> nama;
            cout<<"        _____ "<<endl<<endl;
```

```cpp
cout<<"> Golongan Gaji Pokok [A/B/C/D] = ";

cin>>gol;


if (gol == 'A' || gol == 'a') {

        gaji=2000000;

        cout<<"  Gaji pokok anda sebesar Rp. 2000000"<<endl<<endl;

        }

        else if (gol == 'B' || gol == 'b')

        {

                gaji=2500000;

                cout<<" Gaji pokok anda sebesar  Rp. 2500000"<<endl<<endl;

        }

        else if (gol == 'C' || gol == 'c')

        {

        gaji=3000000;

        cout<<"  Gaji pokok anda sebesar Rp. 3000000"<<endl<<endl;

        }

        else if (gol == 'D' || gol == 'd')

        {

                gaji=3500000;

                cout<<"  Gaji pokok anda sebesar Rp. 3500000"<<endl<<endl;

        }

         else

         {

                cout<<"Format yang anda input salah"<<endl<<endl;

                system("cls");

goto menu;

        }


        cout<<" Apakah anda sudah menikah? [y/t] = ";

        cin>>istri;
```

```cpp
    if (istri == 'y' || istri == 'Y'){

        tunjangan = 250000;

                cout<<"  Berapa jumlah ank yang anda miliki (maks 3) = ";

                cin>>nak;

            if (nak >= 0 && nak <= 3 )

            anak = nak*150000;

            else{

            cout<<"> jumlah anak yang di input maksimal 3 "<<endl;system("cls");

system("cls");

goto menu;


            }



            }




    else if (istri == 't' || istri == 'T'){

                tunjangan = 0;

                anak = 0;

        }

        else

        {

                cout<<" Format yang anda masukan salah"<<endl<<endl;

                system("cls");

goto menu;

        }


        cout<<endl<<"> Berapa hari anda masuk kerja dalam sebulan (maks 20) = ";

        cin>>hari;
```

```cpp
    if (hari >= 1 && hari <= 20){

     makan = hari*12500;

     system("cls");

   goto struk;

     }

     else

     {

     system("cls");

goto menu;

     cout<<" format salah "<<endl<<endl;

     }


     struk :


cout<<endl<<"        SLIP GAJI KARYAWAN            "<<endl;

cout<<"           _____            "<<endl<<endl;

cout<<" Nama Pegawai : "<<nama<<endl;

cout<<" ======================================"<<endl;

cout<<" |No.|   Keterangan   | Pendapatan | "<<endl;

cout<<" ======================================"<<endl;

cout<<" | 1 | Gaji Pokok     |   "<<gaji<<"  |"<<endl;

cout<<" | 2 | Tunjangan Istri |   "<<tunjangan<<"   |"<<endl;

cout<<" | 3 | Tunjangan anak   |   "<<anak<<"   |"<<endl;

cout<<" | 4 | Uang makan      |   "<<makan<<"   |"<<endl;

cout<<" _____ +"<<endl;

cout<<" |Potong pajak 7,5%    |   "<<gaji+tunjangan+makan+anak<<"   |"<<endl;

cout<<" ======================================"<<endl;

     pajak = (gaji+tunjangan+anak+makan)*0.075;

     total = (gaji+tunjangan+anak+makan)-pajak;
```

```cpp
        cout<<" Total Gaji anda sebesar  Rp."<<total<<endl;

        cout<<" ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~"<<endl<<endl;


        cout<<"Ingin Kembali Mengitung Gaji? [y/t]";

        cin>>lagi;

        if (lagi == y ||lagi == Y){

    goto menu;

        }

        else {

        }

        cout<<">>>>>> TRANSAKSI ANDA TELAH SELESAI <<<<<<"<<endl<<endl;


        if (login != "berhasil")

        {

          cout << "Anda telah 3x salah login.\n";

         cout << " SIlahkan Hubungi Call center\n\n";

         }


}
```

```
            SLIP GAJI KARYAWAN
        _____

Nama Pegawai : Nazwa
====================================
|No.|    Keterangan    |  Pendapatan  |
====================================
| 1 | Gaji Pokok       |    2000000   |
| 2 | Tunjangan Istri  |     0        |
| 3 | Tunjangan anak   |     0        |
| 4 | Uang makan       |    250000    |
        _____      +
|Potong pajak 7,5%      |    2250000   |
====================================
Total Gaji anda sebesar  Rp.2081250
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

Ingin Kembali Mengitung Gaji? [y/t]t
>>>>>> TRANSAKSI ANDA TELAH SELESAI <<<<<<


--------------------------------
Process exited after 16.69 seconds with return value 0
Press any key to continue . . .
```

```
===========================
Username / Password Salah! (1x)
===========================

Username = 1eer
Password = 2rdf

===========================
Username / Password Salah! (2x)
===========================

Username = 12edff
Password = qwd

===========================
Username / Password Salah! (3x)
===========================

Anda telah 3x salah login.
 SIlahkan Hubungi Call center


--------------------------------
Process exited after 20.29 seconds with return value 0
Press any key to continue . . .
```

2. Mengurutkan Angka

```cpp
#include <iostream>
using namespace std;
int main()
{

        cout<<"~~~~~~~~~~~~~~~~~"<<endl;
        cout<<"Nama\t: Nazwa Hemalia Putri"<<endl;
        cout<<"NIM\t: 1227050103"<<endl;
        cout<<"~~~~~~~~~~~~~~~~~"<<endl<<endl;

        int i, j, k, v, n;
        cout << "Masukkan Jumlah : "; cin >> v;
        for (i = v; i > 0; --i) {
                for (j = v - i; j > 0; --j) {
                        cout << " ";
                }
                for (k = i; k > 0; --k) {
                        cout << k;
                }
                cout << endl;
        }
}
```

D:\DASPOR\URUTIN ANGA UTS.exe

```
~~~~~~~~~~~~~~~~~
Nama    : Nazwa Hemalia Putri
NIM     : 1227050103
~~~~~~~~~~~~~~~~~

Masukkan Jumlah : 5
54321
 4321
  321
   21
    1

--------------------------------
Process exited after 2.758 seconds with return value 0
Press any key to continue . . .
```