Praktikum Algoritma dan Pemrograman Fauzy Ramadan 20.14.1.0051 Tugas 3.1 & 3.2

Kode Program 3.1

```
{Nama: Fauzy Ramadan}
{NPM : 20.14.1.0051}
{Program: TUGAS 3.1 .pas}
program Tugas3_1;
uses crt;
var
nilai, quiz, absen, uts, uas, tugas : real;
huruf_mutu : char;
begin
clrscr;
quiz := 40;
absen := 100;
uts := 60;
uas := 50;
tugas := 80;
writeln ('Absen = ', absen:5:2, 'UTS = ', uts:5:2);
writeln ('Tugas = ', tugas:5:2, ' UAS = ', uas:5:2);
writeln ('Quiz = ', quiz:5:2);
nilai := ((0.1*absen)+(0.2*tugas)+(0.3*quiz)+(0.4*uts)+(0.5*uas))/2;
if (nilai > 85) and (nilai <= 100) then
huruf_mutu := 'A'
else if (nilai > 70) and (nilai <= 85) then
huruf_mutu := 'B'
else if (nilai > 55) and (nilai <= 70) then
huruf mutu := 'C'
else if (nilai > 40) and (nilai <= 55) then
huruf mutu := 'D'
else if (nilai > 0) and (nilai <= 40) then
huruf_mutu := 'E';
writeIn ('Huruf Mutu : ', huruf_mutu);
readIn;
end.
else if (nilai > 55) and (nilai <= 70) then
huruf_mutu := 'C'
else if (nilai > 40) and (nilai <= 55) then
huruf mutu := 'D'
else if (nilai > 0) and (nilai <= 40) then
huruf_mutu := 'E';
```

```
writeln ('Huruf Mutu:', huruf_mutu); readln; end.
```

Screenshot Program 3.1

Kode Program 3.2

```
{Nama: Fauzy Ramadan}
{NPM : 20.14.1.0051}
{Program: Tugas 3.2}
program Tugas3_2;
uses crt;
var
golongan: Char;
gajipokok, tunjangan, potongiuran, persentase, gajibersih: Real;
status: String;
begin
    clrscr;
       write('Nama Karyawan : ');
       readIn();
       writeln();
       write('Golongan (A\B):');
        readIn(golongan);
    writeln();
       write('Status (Nikah\Belum) : ');
        readIn(status);
    Writeln();
```

```
case golongan of
            'A':
              if (status = 'nikah') then
              begin
          gajipokok := 200000;
          tunjangan := 50000;
          end
          else
            begin
          gajipokok := 200000;
          tunjangan := 25000;
          end;
             'B':
            if (status = 'nikah') then
                 begin
               gajipokok := 350000;
               tunjangan := 75000;
                 end
                  else
                     begin
                     gajipokok := 350000;
                     tunjangan := 60000;
                     end;
end;
    if (gajipokok<=300000) then
      begin
            persentase := 0.05;
              end
     else
     begin
                     persentase := 0.1;
              end;
    potong iuran := (gaji pokok + tunjangan) * persentase;
    gajibersih := gaji pokok + tunjangan – potong iuran;
       writeln('gaji pokok: Rp.',gajipokok:4:0);
   writeln;
       writeIn('tunjangan : Rp.',tunjangan:4:0);
   writeln;
       writeln('Potong iuran : Rp.',potong iuran:4:0);
   writeln;
       writeln('Gaji bersih: Rp.',gaj bersih:4:0);
   readIn;
    end.
```

Screenshot Program 3.2

```
Nama Karyawan : anwar
Solongan (A\B) : B
Status (Nikah\Belum) : nikah
gaji_pokok : Rp.350000
tunjangan : Rp.75000
Potong iuran : Rp.42500
Gaji bersih : Rp.382500
```

Kode Program 3.1 (C++)

```
// Nama : Fauzy Ramadan
// NPM : 20.14.1.0051
// Program : Tugas 3.2
#include <iostream>
using namespace std;
int main()
{
        int nilai, quiz, absen, uts, uas, tugas;
        quiz = 40;
        absen = 100;
        uts = 60;
        uas = 50;
        tugas = 80;
        cout << " Absen = "<< absen << endl;</pre>
        cout << " Tugas = "<< tugas << endl;</pre>
        cout << " Quiz = "<< quiz << endl;
        cout << " UTS = "<< uts << endl;
        cout << " UAS = "<< uas << endl;
        nilai = ((0.1 * absen)+(0.2 * tugas)+(0.3 * quiz)+(0.4 * uts)+(0.5 * uas));
        if ((nilai > 85) && (nilai <=100)){
        cout << "Huruf Mutu = A";</pre>
        if ((nilai > 70) && (nilai <=85)){
```

```
cout << "Huruf Mutu = B";
}
if ((nilai > 55) && (nilai <=70)){
    cout << "Huruf Mutu = C";
}
if ((nilai > 40) && (nilai <=55)){
    cout << "Huruf Mutu = D";
}
if ((nilai > 850) && (nilai <=40)){
    cout << "Huruf Mutu = E";
}
return 0;
}</pre>
```

Screenshot Program 3.1 (C++)

Kode Program 3.2 (C++)

```
// Nama: Fauzy Ramadan
// NPM: 20.14.1.0051
// Program: TUGAS 3.2
#include <iostream>
#include <string.h>
using namespace std;
int main ()
{
    string nama;
    float persentase;
```

```
int gajipokok, tunjangan, potongiuran, gajibersih;
char golongan,status[6];
cout << "Nama Karyawan : ";</pre>
getline(cin,nama);
cout << "Golongan (A/B) : ";</pre>
cin >> golongan;
cout << "Status (nikah/belum): ";
cin>>status;
cout << endl;
switch (golongan)
{
        case 'A':
                if (strcmp(status,"nikah")==0){
                         gajipokok = 200000;
                         tunjangan = 50000;
                } else {
                         gajipokok = 200000;
                         tunjangan = 25000;
                }
        break;
        case 'B':
                         if (strcmp(status,"nikah")==0){
                         gajipokok = 350000;
                         tunjangan = 75000;
                } else {
                         gajipokok = 350000;
                         tunjangan = 60000;
                }
        break;
if (gajipokok <= 300000){
        persentase = 0.05;
} else {
        persentase = 0.1;
}
potongiuran = (gajipokok + tunjangan) * persentase;
gajibersih = gajipokok + tunjangan - potongiuran;
cout << "gaji Pokok : Rp. "<<gajipokok << endl;</pre>
cout << "Tunjangan : Rp. "<<tunjangan << endl;
cout << "Potong luran : Rp. "<<potongiuran << endl;</pre>
cout << "Gaji bersih : Rp. "<<gajibersih<< endl;</pre>
return 0;
```

}

Screecshot Program 3.2 (C++)