Jum’at, 20 April 2012

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1. **Nilai**

**uses** wincrt;

var nilai, i, j : integer;

nama : **string** ;

**begin**

write ('nama : '); readln (nama) ;

write ('nilai : '); readln (nilai);

**if** (nilai >= 80) **and** (nilai <= 100) **then** writeln ('A') **else**

**if** (nilai >= 70) **and** (nilai <= 80) **then** writeln ('B') **else**

**if** (nilai >= 56) **and** (nilai <= 70) **then** writeln ('C') **else**

**if** (nilai > 40) **and** (nilai < 56) **then** writeln ('D')

**else** writeln('E')

**end.**

**USES** WINCRT;

VAR NILAI, I, J : INTEGER;

NAMA : **STRING**;

**BEGIN**

WRITE ('NAMA : ');READLN (NAMA);

WRITE ('NILAI :'); READLN (NILAI);

**IF** (NILAI >= 80) **AND** (NILAI <= 100) **THEN** WRITELN ('A') **ELSE**

**IF** (NILAI >= 70) **AND** (NILAI < 80) **THEN** WRITELN ('B') **ELSE**

**IF** (NILAI >= 56) **AND** (NILAI < 70) **THEN** WRITELN ('C') **ELSE**

**IF** (NILAI >= 40) **AND** (NILAI < 56) **THEN** WRITELN ('D')

**ELSE** WRITELN ('E') ; READLN;

**END.**

* Untuk memasukkan nilai uts (25%), uas (50%), tugas (15%), absen (10%)

**uses** wincrt;

var nilai, i, j : real;

nuts, nuas, ntugas, nabsen : real ;

nama : **string** ;

**begin**

write ('nama : '); readln(nama) ;

write ('nilai uas : '); readln(nuas);

write ('nilai uts : '); readln(nuts);

write ('nilai tugas : '); readln(ntugas);

write ('nilai absen : '); readln(nabsen);

nilai := ( nuts \* 0.25 ) + ( nuas \* 0.5 ) + ( ntugas \* 0.15 ) + ( nabsen \* 0.1 );

**if** (nilai >= 80) **and** (nilai <= 100) **then** writeln ('A') **else**

**if** (nilai >= 70) **and** (nilai <= 80) **then** writeln ('B') **else**

**if** (nilai >= 56) **and** (nilai <= 70) **then** writeln ('C') **else**

**if** (nilai > 40) **and** (nilai < 56) **then** writeln ('D')

**else** writeln('E')

**end.**

1. **Jurusan**

* Untuk data nilai dan jurusan :

**USES** WINCRT;

VAR NILAI, I, J, KODE : INTEGER;

NAMA, JURUSAN : **STRING**;

**BEGIN**

WRITE ('NAMA : ');READLN (NAMA);

WRITE ('KODE : ');READLN (KODE);

WRITE ('NILAI :'); READLN (NILAI);

**IF** (NILAI >= 80) **AND** (NILAI <= 100) **THEN** WRITELN ('A') **ELSE**

**IF** (NILAI >= 70) **AND** (NILAI < 80) **THEN** WRITELN ('B') **ELSE**

**IF** (NILAI >= 56) **AND** (NILAI < 70) **THEN** WRITELN ('C') **ELSE**

**IF** (NILAI >= 40) **AND** (NILAI < 56) **THEN** WRITELN ('D')

**ELSE** WRITELN ('E') ; READLN;

**IF** KODE = 1 **THEN** JURUSAN := 'BHS INGGRIS' **ELSE**

**IF** KODE = 2 **THEN** JURUSAN := 'MATEMATIKA' **ELSE**

**IF** KODE = 3 **THEN** JURUSAN := 'FISIKA' **ELSE**

**IF** KODE = 4 **THEN** JURUSAN := 'BIOLOGI' **ELSE**

**IF** KODE = 5 **THEN** JURUSAN := 'JEPANG'

**ELSE** WRITELN ('SALAH KODE') ; READLN;

CLRSCR;

WRITELN (NAMA); WRITELN (JURUSAN); WRITELN (NILAI);

**END.**

1. **Transaksi Penjualan**

Misalkan , <100 tdk dpt diskon; 100-500 diskon 10% ; >500-1jt diskon 15 %; >1jt diskon 20%.

**USES** WINCRT;

**VAR** NABAR : **STRING**;

HARGA, DISK, NETHRG : REAL;

**BEGIN**

WRITE ('NAMA BARANG : '); READLN (NABAR);

WRITE ('HARGA : '); READLN (HARGA);

**IF** (HARGA < 100000) **THEN** DISK := 0\*HARGA **ELSE**

**IF** (HARGA >= 100000) **AND** (HARGA <= 500000) **THEN** DISK := 0.1\*HARGA **ELSE**

**IF** (HARGA < 500000) **AND** (HARGA <= 1000000) **THEN** DISK := 0.15\*HARGA **ELSE**

DISK := 0.2 \* HARGA ;

NETHRG := HARGA - DISK;

WRITE('NAMA BARANG : '); WRITELN (NABAR);

WRITE('HARGA : '); WRITELN (NETHRG:8:0);

**END.**

Ket. :

Misalkan diketahui harga radio 700000,, maka program akan mengeluarkan hasil akhir berupa harga NET yaitu **NETHRG := HARGA – DISK** ;

Logikanya dengan perhitungan manual :

700000 🡪 diskon 15% = 65000 ; maka NET = 700000-65000 = 595000.

* Untuk menggunakan jumlah barang :

**USES** WINCRT;

**VAR** NABAR : **ARRAY**[1..10] OF **STRING**;

HARGA, DISK, NETHRG : **ARRAY**[1..10] **OF** REAL ;

I, JLH : INTEGER;

**BEGIN**

WRITE ('JUMLAH DATA : '); READLN (JLH);

**FOR** I := 1 **TO** JLH **DO**

**BEGIN**

WRITE ('NAMA BARANG : '); READLN (NABAR[I]);

WRITE ('HARGA : '); READLN (HARGA[I]);

**IF** (HARGA[I] < 100000) **THEN** DISK[I] := 0\*HARGA[I]  **ELSE**

**IF** (HARGA[I] >= 100000) **AND** (HARGA[I] <= 500000) **THEN** DISK[I]:= 0.1\*HARGA[I] **ELSE**

**IF** (HARGA[I] < 500000) **AND** (HARGA[I] <= 1000000) **THEN** DISK[I] := 0.15\*HARGA[I] **ELSE**

DISK[I] := 0.2 \* HARGA[I] ;

NETHRG[I] := HARGA[I] - DISK[I];

WRITE('NAMA BARANG[I] : '); WRITELN (NABAR[I]);

WRITE('HARGA : '); WRITELN (NETHRG[I]:8:0);

**END;**

**END.**

1. **Soal Praktek**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Nama Barang | Harga Barang | Diskon | Harga Diskon | Net Harga |
| Printer | Rp 1000000,00 | 10 % |  |  |
| Kamera | Rp 1800000,00 | 15 % |  |  |
| LCD 21’ | Rp 2000000,00 | 12 % |  |  |
| Komputer | Rp 2500000,00 | 18 % |  |  |
| Netbook | Rp 3500000,00 | 15 % |  |  |
| Laser Jet Printer | Rp 2000000,00 | 12 % |  |  |

* Harga Diskon = Diskon x Harga Barang
* Net Harga = Harga Barang – Harga Diskon

**USES** WINCRT;

**VAR** X, Y, I, JLHMHS, JLHS : INTEGER;

NAMA,JENIS : **ARRAY**[1..20] **OF** **STRING**;

HRG,DISC, HRGDIS, NETHRG : **ARRAY** [1..20] **OF** REAL;

JLHHDISK, JLHNET : REAL;

**BEGIN**

WRITE('JUMLAH BARANG: ');READLN(JLHMHS);

JLHHDISK := 0;

JLHNET := 0;

FOR I := 1 **TO** JLHMHS **DO**

**BEGIN** CLRSCR;

WRITE('NAMA BARANG : ');READLN(NAMA[I]);

WRITE('HARGA : ');READLN(HRG[I]);

WRITE('DISKON : ');READLN(DISC[I]);

HRGDIS[I] := HRG[I] \* DISC[I] \* 0.01;

NETHRG[I] := HRG[I] - HRGDIS[I];

JLHHDISK := JLHHDISK + HRGDIS[I];

JLHNET := JLHNET + NETHRG[I];

**END;**

CLRSCR;

**FOR** I := 1 **TO** JLHMHS **DO**

**BEGIN**

GOTOXY(2,3+I);WRITE(NAMA[I]);

GOTOXY(20,3+I);WRITE(HRG[I]:8:0);

GOTOXY(30,3+I);WRITE(DISC[I]:2:0,'%');

GOTOXY(45,3+I);WRITE(HRGDIS[I]:8:0);

GOTOXY(60,3+I);WRITE(NETHRG[I]:8:0);

**END;** WRITELN;

**FOR** Y := 1 **TO** 70 **DO** WRITE('-');

GOTOXY(10,5+I);WRITE('JUMLAH');

GOTOXY(45,5+I);WRITE(JLHHDISK:8:0);

GOTOXY(60,5+I);WRITELN(JLHNET:8:0);

**FOR** Y := 1 **TO** 70 **DO** WRITE('-');

**END.**

**E. Data Lengkap (Nama, NIM, Jurusan, Nilai)**

**USES** WINCRT;

**VAR** X, Y, I, JLHMHS : INTEGER;

NAMA, NIM, JURUSAN, NILHURUF : **ARRAY**[1..20] **OF STRING**;

NILANGKA : **ARRAY**[1..20] **OF** INTEGER;

**BEGIN**

WRITE ('JUMLAH MAHASISWA :'); READLN (JLHMHS);

**FOR** I := 1 **TO** JLHMHS **DO**

**BEGIN** CLRSCR;

WRITE ('NAMA MAHASISWA :'); READLN (NAMA[I]);

WRITE ('NIM :'); READLN (NIM[I]);

WRITE ('JURUSAN :'); READLN (JURUSAN[I]);

WRITE ('NILAI :'); READLN (NILANGKA[I]);

IF (NILANGKA[I] >= 0) **AND** (NILANGKA[I] <= 40) **THEN** NILHURUF[I] := 'E' **ELSE**

IF (NILANGKA[I] > 40) **AND** (NILANGKA[I] <= 55) **THEN** NILHURUF[I] := 'D' **ELSE**

IF (NILANGKA[I] > 55) **AND** (NILANGKA[I] <= 70) **THEN** NILHURUF[I] := 'C' **ELSE**

IF (NILANGKA[I] > 70) AND (NILANGKA[I] <= 80) **THEN** NILHURUF[I] := 'B' **ELSE**

IF (NILANGKA[I] > 80) AND (NILANGKA[I] <=100) **THEN** NILHURUF[I] := 'A' **ELSE**

NILHURUF[I] := 'SALAH DATA'

**END;**

CLRSCR;

**FOR** Y := 1 **TO** 70 **DO** WRITE ('-');

GOTOXY(2,2); WRITE ('NAMA MAHASISWA');

GOTOXY(20,2); WRITE ('NIM');

GOTOXY(35,2); WRITE ('JURUSAN');

GOTOXY(50,2); WRITE ('N ANGKA');

GOTOXY(60,2); WRITE ('N HURUF');

**FOR** Y := 1 **TO** 70 **DO** WRITE ('-');

**FOR** I := 1 **TO** JLHMHS **DO**

**BEGIN**

GOTOXY(2,3+I); WRITE (NAMA[I]);

GOTOXY(20,3+I); WRITE (NIM[I]);

GOTOXY(35,3+I); WRITE (JURUSAN[I]);

GOTOXY(50,3+I); WRITE (NILANGKA[I]);

GOTOXY(60,3+I); WRITE (NILHURUF[I]);

**END;**

WRITELN;

**FOR** Y := 1 **TO** 70 **DO** WRITE('-');

**END.**