**TUGAS PRAKTIKUM 29**

**Struct 1**



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1. Tugas Pendahuluan.
   1. A. Listing

#include <stdio.h>

#include <stdlib.h>

#define MAKS 20

struct date

{

int month, day, year;

};

struct student

{

char name[30];

struct date birthday;

};

int main()

{

struct student data\_mhs[MAKS];

int i==0, jml;

char lagi;

do

{

printf("Name :");

gets (data\_mhs[i].name);

printf("Birthday (mm-dd-yyyy) : ");

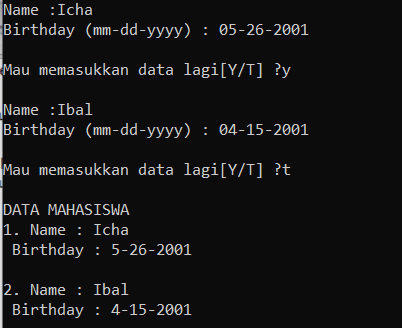
scanf("%d-%d-%d", &data\_mhs[i].birthday.month, &data\_mhs[i].birthday.day, &data\_mhs[i].birthday.year);

}

return 0;

}

1. Output



* 1. A. Listing

#include <stdio.h>

#include <stdlib.h>

#define MAKS 20

struct date

{

int day, month, year;

};

int caribanyakhari(int month, int year);

int main()

{

struct date today;

struct date tomorrow;

char lagi;

do

{

printf("Masukkan tanggal hari ini(dd-mm-yyyy) :");

scanf("%d-%d-%d", &today.day, &today.month,

&today.year);

if (today.day+1>caribanyakhari(today.month, today.year))

{

if (today.month == 12)

{

tomorrow.day=1;

tomorrow.month=1;

tomorrow.year=today.year+1;

}

else

{

tomorrow.day=1;

tomorrow.month=today.month+1;

tomorrow.year=today.year;

}

}

else

{

tomorrow.day=today.day+1;

tomorrow.month=today.month;

tomorrow.year=today.year;

}

printf("Maka tanggal besok (dd-mm-yyyy :%2d-%2d-%d", tomorrow.day, tomorrow.month, tomorrow.year);

fflush(stdin);

printf("\nMau memasukkan tanggal lagi [Y/T] ?");

lagi = getchar();

}

while(lagi=='Y'||lagi=='y');

}

int caribanyakhari(int bulan, int tahun)

{

int daftarhari[]={31,28,31,30,31,30,31,31,30,31,30,31};

int jumhari=daftarhari[bulan-1];

if(bulan==2 && tahun %4==0)

{

if(tahun%100 != 0 || tahun%400 == 0)

jumhari = 29;

}

return jumhari;

}

printf("Maka tanggal besok (dd-mm-yyyy :%2d-%2d-%d", tomorrow.day, tomorrow.month, tomorrow.year);

fflush(stdin);

printf("\nMau memasukkan tanggal lagi [Y/T] ?");

lagi = getchar();

}

while(lagi=='Y'||lagi=='y');

}

int caribanyakhari(int bulan, int tahun)

{

int daftarhari[]={31,28,31,30,31,30,31,31,30,31,30,31};

int jumhari=daftarhari[bulan-1];

if(bulan==2 && tahun %4==0)

{

if(tahun%100 != 0 || tahun%400 == 0)

jumhari = 29;

}

return jumhari;

}

int caribanyakhari(int bulan, int tahun)

{

int daftarhari[]={31,28,31,30,31,30,31,31,30,31,30,31};

int jumhari=daftarhari[bulan-1];

if(bulan==2 && tahun %4==0)

{

if(tahun%100 != 0 || tahun%400 == 0)

jumhari = 29;

}

return jumhari;

}

printf("Maka tanggal besok (dd-mm-yyyy :%2d-%2d-%d", tomorrow.day, tomorrow.month, tomorrow.year);

fflush(stdin);

printf("\nMau memasukkan tanggal lagi [Y/T] ?");

lagi = getchar();

}

while(lagi=='Y'||lagi=='y');

}

int caribanyakhari(int bulan, int tahun)

{

int daftarhari[]={31,28,31,30,31,30,31,31,30,31,30,31};

int jumhari=daftarhari[bulan-1];

if(bulan==2 && tahun %4==0)

{

if(tahun%100 != 0 || tahun%400 == 0)

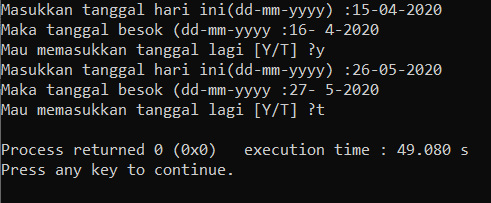
jumhari = 29;

}

return jumhari;

}

1. Output



1. Analisa

Array hanya dapat menyimpan data dan tipe yang sama. Program diatas digunakan untuk menampilkan rata rata dan nilai.

* 1. A. Listing

#include <stdio.h>

#include <stdlib.h>

#include <string.h>

struct daftarmenu

{

char kode;

int jumlah;

};

int main()

{

struct daftarmenu masuk[30];

int i=0, j, harga, total=0;

char jb, jenis[6];

printf("\tAYAM GORENG CORNER\n");

printf("\t DAFTAR HARGA\n");

printf("Kode\tJenis\tHarga/potong\n");

printf(" D \tDada \tRp.5000,00\n");

printf(" P \tPaha \tRp.4000,00\n");

printf(" S \tSayap\tRp.3000,00\n");

printf("\nHarga belum termasuk pajak PPN = 10%%\n");

printf("\n\tMasukkan Pesanan Anda\n");

do

{

printf("Pesanan ke - %d", i+1);

fflush(stdin);

printf("\nJenis [D/P/S] :");

scanf("%c", &masuk[i].kode);

fflush(stdin);

printf("Banyaknya :");

scanf("%d", &masuk[i].jumlah);

i++;

fflush(stdin);

printf("Mau pesan lagi [Y/N] :");

jb = getchar();

}

while(jb=='Y' || jb=='y');

printf("\n Nota Belanja Anda\n");

printf(" AYAM GORENG CORNER\n");

printf("===================================================================");

for (j=0;j<i;j++)

{

switch(masuk[j].kode)

{

case 'D' : case 'd' :

strcpy(jenis,"DADA");

harga = 5000;

break;

case 'P' : case 'p' :

strcpy(jenis, "PAHA");

harga = 4000;

break;

case 'S' : case 's' :

strcpy(jenis, "SAYAP");

harga = 3000;

break;

}

printf("\n%d\t%s\t\t Rp.%2d\t%d\tRp.%6.2d", j+1,jenis,harga,masuk[j].jumlah,harga\*masuk[j].jumlah);

total = total + harga\*masuk[j].jumlah;

}

printf("\n====================================================================");

printf("\n Jumlah Bayar\tRp.%6.2d", total);

printf("\n Pajak 10%% \tRp.%6.2d", total/10);

printf("\n Total Bayar \tRp.%6.2d", total+total/10);

printf("\n");

printf("\n\t TERIMAKASIH TELAH BERKUNJUNG");

return 0;

}

case 'S' : case 's' :

strcpy(jenis, "SAYAP");

harga = 3000;

break;

}

printf("\n%d\t%s\t\t Rp.%2d\t%d\tRp.%6.2d", j+1,jenis,harga,masuk[j].jumlah,harga\*masuk[j].jumlah);

total = total + harga\*masuk[j].jumlah;

}

printf("\n====================================================================");

printf("\n Jumlah Bayar\tRp.%6.2d", total);

printf("\n Pajak 10%% \tRp.%6.2d", total/10);

printf("\n Total Bayar \tRp.%6.2d", total+total/10);

printf("\n");

printf("\n\t TERIMAKASIH TELAH BERKUNJUNG");

return 0;

}

{

switch(masuk[j].kode)

{

case 'D' : case 'd' :

strcpy(jenis,"DADA");

harga = 5000;

break;

case 'P' : case 'p' :

strcpy(jenis, "PAHA");

harga = 4000;

break;

case 'S' : case 's' :

strcpy(jenis, "SAYAP");

harga = 3000;

break;

}

printf("\n%d\t%s\t\t Rp.%2d\t%d\tRp.%6.2d", j+1,jenis,harga,masuk[j].jumlah,harga\*masuk[j].jumlah);

total = total + harga\*masuk[j].jumlah;

}

printf("\n====================================================================");

printf("\n Jumlah Bayar\tRp.%6.2d", total);

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printf("\n Total Bayar \tRp.%6.2d", total+total/10);

printf("\n");

printf("\n\t TERIMAKASIH TELAH BERKUNJUNG");

return 0;

}

case 'S' : case 's' :

strcpy(jenis, "SAYAP");

harga = 3000;

break;

}

printf("\n%d\t%s\t\t Rp.%2d\t%d\tRp.%6.2d", j+1,jenis,harga,masuk[j].jumlah,harga\*masuk[j].jumlah);

total = total + harga\*masuk[j].jumlah;

}

printf("\n====================================================================");

printf("\n Jumlah Bayar\tRp.%6.2d", total);

printf("\n Pajak 10%% \tRp.%6.2d", total/10);

printf("\n Total Bayar \tRp.%6.2d", total+total/10);

printf("\n");

printf("\n\t TERIMAKASIH TELAH BERKUNJUNG");

return 0;

}

1. Kesimpulan :

Struct adalah pengelompokan variabel – variabel yang bernaung dalam satu nama

yang sama. Berbeda dengan array, array berisi variabel bertipe sama sedangkan

struktur berisi variabel berbeda tipe dalam 1 struktur. Elemen dari suatu array dapat

membentuk struktur. Misalnya array yang menyimpan data murid (struct student).