Soal Praktikum *Practicum Case*	
COMP6360 Algorithm and Programming	**BINUS MALANG** Institute of Creative Technology
Teknik Informatika *Computer Science*	CS-COMP6360-Var01
Periode Berlaku Mulai Semester Ganjil 2018/2019 *Valid on Odd Semester Year* 2018/2019	**Revisi 01** *Revision 01*

Learning Outcomes

• Write a program in C language in problem solving

Topic

• Session 01 – IDE and I/O instruction Syntax I/O and Variable

Sub Topics

• Typing code with syntax error
• Compile, run, and debug program
• Knowing data type and variable assignment
• Creating a program using I/O syntax

Activity

Firstly, student will type, compile, run and debug program from given sample source code. Secondly, student will type the case source code and correct the error syntax found. If successful, students can add a discount of 20% on the total to be paid.

Example

For undestanding IDE and I/O instruction Syntax I/O and Variable, type this example source code *except for the comment lines that are printed gray and italic.*
Then, compile and run this program. Example source code is attached in the following page.

Case

Understand the algorithm of a given case. Type all lines of case source code and correct the error syntax found. If successful, students can add a discount of 20% on the total to be paid.

Example

Type this example source code except *except for the comment lines that are printed gray and italic.*

```c
//perlu mencantumkan library yang dipakai
#include <stdio.h>

//inti program. Perhatikan tanda () {} \ " % ; , [] yang dipakai
int main()
{
  //memperkenalkan variabel yang dipakai
  //yaitu NasGor, teh, dan jumlah adalah variabel bertipe integer
  //sedangkan NamaAnda adalah variabel bertipe character
  int NasGor,teh,jumlah;
  char NamaAnda[50];

  //menampilkan tulisan SELAMAT DATANG
  printf("\n\t\t\t   SELAMAT DATANG\n");
  printf("\t\t\t===================\n\n");

  printf("   Masukkan nama Anda : ");
  //meminta inputan berupa karakter
  //inputan tersebut disimpan dalam variabel NamaAnda
  scanf("%[^\n]s",NamaAnda);
  fflush(stdin);

  printf("\n\n\n   Halo %s,\n\n",NamaAnda);
  printf("   MENU   [Tekan 0 jika Anda tidak ingin membeli] : \n");
  printf("      Nasi goreng   Rp. 20.000 :   ");
  //meminta inputan berupa integer dan membaca inputan tersebut
  //inputan tersebut disimpan dalam variabel NasGor
  scanf("%d",&NasGor);
  printf("      Teh panas      Rp.  5.000 :   ");
  scanf("%d",&teh);
  getchar();

  //menampilkan DAFTAR PEMBELIAN beserta dengan yang diinputkan tadi
  printf("\n\n   DAFTAR PEMBELIAN :\n");
  printf("      Nasi goreng   : %d  =   Rp. %d\n",NasGor,NasGor*20000);
  printf("      Teh panas      : %d  =   Rp. %d\n",teh,teh*5000);

  //melakukan perhitungan jumlah
  jumlah = (NasGor*20000)+(teh*5000);
  printf("\n  Total   : Rp. %d\n\n",jumlah);    getchar();
  printf("\n  Terima kasih.");    getchar();
  return 0;
}
```

Sample Initial Screenshot

```
                    SELAMAT DATANG
                    ====================

 Masukkan nama Anda :
```

Sample Following Step Screenshot

```
                    SELAMAT DATANG
                    ====================
 Masukkan nama Anda : Alexa


 Halo Alexa,

 MENU    [Tekan 0 jika Anda tidak ingin membeli] :
     Nasi goreng     Rp.  20.000  :
```

Sample Whole Program Screenshot

```
                    SELAMAT DATANG
                    ====================
 Masukkan nama Anda : Alexa


 Halo Alexa,

 MENU    [Tekan 0 jika Anda tidak ingin membeli] :
     Nasi goreng     Rp.  20.000  :     1
     Teh panas       Rp.   5.000  :     1


 DAFTAR PEMBELIAN :
     Nasi goreng     : 1   =     Rp. 20000
     Teh panas       : 1   =     Rp. 5000

 Total    : Rp. 25000


 Terima kasih.
```

Soal
Case

"Mbois Cantheen" is a store that sells some beverages. The store requires the appliaction to record their sales transactions. Here are the descriptions of the program :

- At the beginning of the program, the user is asked to input **customer name**.
- Show the list price of each item :
  - *Fried Fries* = Rp. 20.000,-
  - *Doughnut* = Rp. 15.000,-
  - *Burger* = Rp. 18.000,-
  - *Tea* = Rp. 7.500,-
  - *Coffee* = Rp. 10.000,-
  - *Juice* = Rp. 15.000,-
- Ask the *user* to input the **number** of items to be ordered.
- Show details customer orders, **total price** of each item, and the **total purchase**.
  - **[Total price** of each item] = [**number of items** * **price** of each item].
  - **[Total purchase]** = [**The sum of all the total price of each item**].

Please run the EXE file to see the sample program.

Initial Screen

```
                    Welcome to Mbois Canteen
                    ===============================

Input your name : _
```

Print Screen of Input

```
Hai Kimberly,

   Menu     [0 if you dont want to order] :

   Fried Fries    Rp. 20.000  :    1
   Doughnut       Rp. 15.000  :    3
   Burger         Rp. 18.000  :    2
   Tea            Rp.  7.500  :    3
   Coffee         Rp. 10.000  :    1
   Juice          Rp. 15.000  :    2
```

Print Screen of Output

```
Purchase List :
   Fried Fries   : 1 = Rp. 20000
   Doughnut      : 3 = Rp. 45000
   Burger        : 2 = Rp. 36000
   Tea           : 3 = Rp. 22500
   Coffee        : 1 = Rp. 10000
   Juice         : 2 = Rp. 30000

Total    : Rp. 163500



Thank you for Coming....._
```

setSupportActionBar# Type this case source code and correct the error syntax found!

```c
int main()
{
  int fri,dnut,burg,tea,cof,jui,jumlah;
  char nama[50];
  printf("\t\t\t   Welcome to Mbois Canteen\n");
  printf("\t\t\t=============================\n\n");

  printf("Input your name : ");
  scanf("%[^\n]s",nama);
  fflush(stdin);
  printf("\n\nHai %s,\n\n",nama);
  printf("  Menu    [0 if you dont want to order] : ");
  printf("\n\n  Fried Fries   Rp. 20.000 :   ");
  scanf("%d",   fri);
  printf("  Doughnut     Rp. 15.000 :   ");
  scanf("%d",&dnut);
  printf("  Burger      Rp. 18.000 :   " ;
  scanf("%d",&burg);
  printf("  Tea         Rp. 7.500 :     );
  scanf("%d",&teh)
  printf("  Coffee      Rp. 10.000 :    ")
  scanf("%d",&cof);
  printf("  Juice       Rp. 15.000 :    ");
  scanf("%[^\n]s",&jui);
  getchar();
  printf("\n\nPurchase List :\n");
  printf("  Fried Fries  : %d = Rp. %d\n",fri,fri*20000);
  printf("  Doughnut    : %d = Rp. %d\n",dnut,dnut*15000);
  printf("  Burger     : %d = Rp. %d\n" burg burg*18000);
  printf("  Tea        : d = Rp. %d\n",tea,tea*7500)
  printf("  Coffee     : %d = Rp. %d\n",cof,cof*10000);
  printf("  Juice      : %d = Rp. %d\n",jui,jui*15000);
  jumlah = (fri*20000)+(dNut*15000)+(burg*18000)+(teh*7500)+(cof*10000)+(jui*15000)
  printf("\nTotal    : Rp. %s \n\n",jumlah);
  getchar();
  printf( \n\nThank you for Coming..... );
  getchar
  return 0;
}
```

setSupportActionBar
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