

# **PRACTICUM Programming Algorithm**



**By:**

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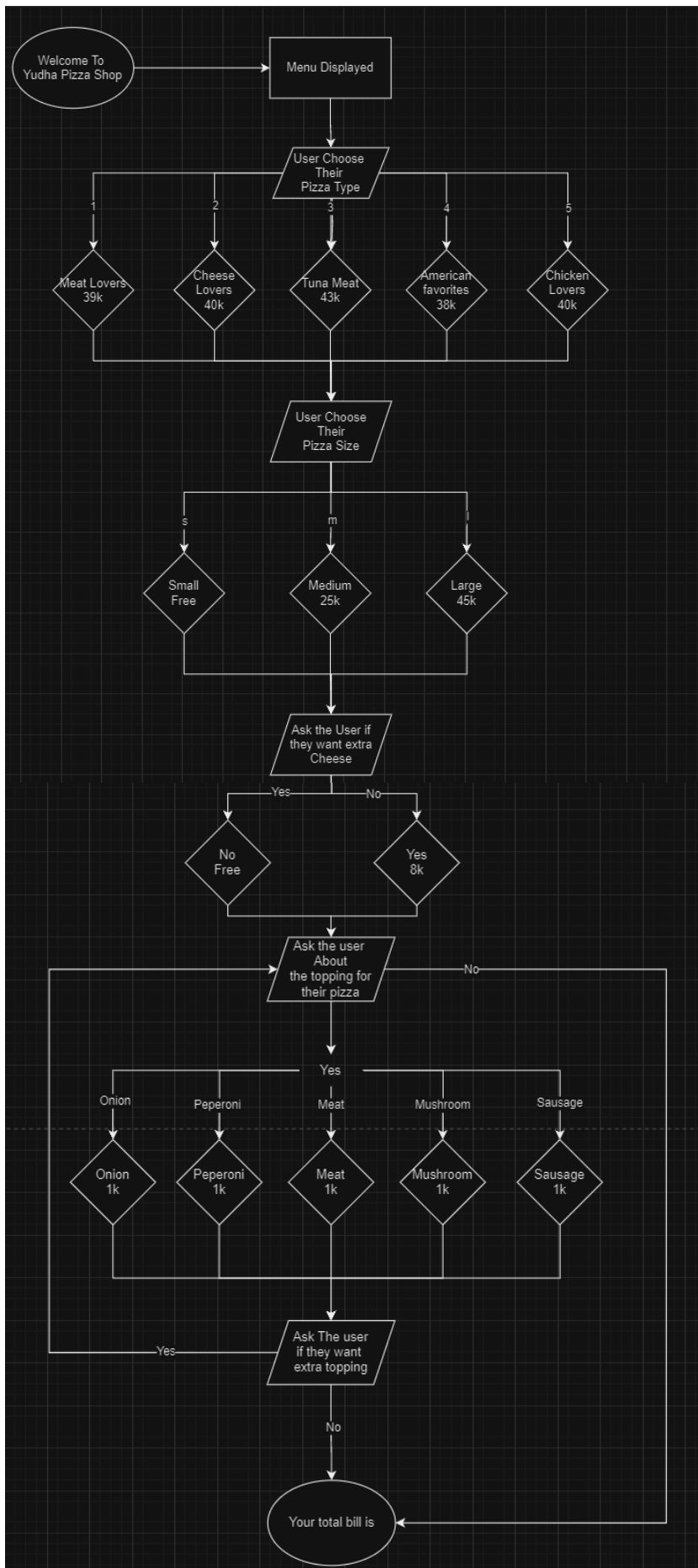
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**INFORMATICS MANAGEMENT STUDY PROGRAM**

**FACULTY OF VOCATIONAL**

**SURABAYA STATE UNIVERSITY**

**2024**



### **Explanantion Flowchart :**

1. Start is to start the program
2. The Menu will be displayed
3. The user will choose their pizza type with input the number according the menu number (1-5)
4. Then the user will be asked about the size of their pizza ( S, M, L)
5. After choosing the size, user will be asked if they want the extra cheese
6. Then the user will be asked if they want topping in their pizza
7. If the user want add topping the program will show what the list of the topping and the user will input the topping. If the user don't want add topping the program will show the bill (end)
8. After choosing the first topping, the user will be asked again if they wanted extra topping in their pizza.
9. If user wanted the extra topping, the program will show the topping. If the user don't want the extra topping, the program will show the bill (end)
10. The last part of the program is the user total bill

## EXPLANATION SNIPPET CODE :

```
1 #Welcome
2 print('Welcome To Yudha Pizza Shop')
3 print('We will prepare Your Delicious Pizza Righth away ')
```

<= This Code is to welcome the user

To Yudha Pizza Shop“ by using print function

Print in line 3 is to print out “We will prepare your delicious pizza right away “ by using print function. Result :

```
Welcome To Yudha Pizza Shop
We will prepare Your Delicious Pizza Righth away
```

```
6 #The very first bill
7 Total_harga = 0
```

<= The very first bill

Total\_harga is going to be a variable to count the bill

```
9 # Pizza type
10 print('Select Your Pizza Type')
11 print('1.Meat Lovers      | Rp.39000')
12 print('2.Cheese Lovers   | Rp.40000')
13 print('3.Tuna Meat       | Rp.43000')
14 print('4.American Favorite | Rp.38000')
15 print('5.Chicken Lovers   | Rp.40000')
16 Type = input('select your pizza ( 1-5 ): ')
17 if Type == "1":
18     print('your pizza is Meat Lovers !!')
19     Total_harga += 39000
20 if Type == "2":
21     print('your pizza is Cheese Lovers !!')
22     Total_harga += 40000
23 if Type == "3":
24     print('your pizza is Tuna Meat !!')
25     Total_harga += 43000
26 if Type == "4":
27     print('your pizza is American Favorite !!')
28     Total_harga += 38000
29 if Type == "5":
30     print('your pizza is Chiken Lovers !!')
31     Total_harga += 40000
```

<= This is going to display the menu to the user and the user will be asked the pizza type they want by input the number of the menu (1-5)

Print Function in line 10 will print out “Select your pizza type”

Print function in line 10-15 will print out the menu

If the user has input a number the input will set Type according to the user input

Every if function is the response for Type

if Type == 1, Total\_harga will be added Rp.39.000, set the Type as Meat lovers also print out “Your pizza is Meat Lovers !!”

if Type == 2, Total\_harga will be added Rp.40.000, set the Type as Cheese lovers also print out “Your pizza is Cheese Lovers !!”

if Type == 3, Total\_harga will be added Rp.43.000, set the Type as Tuna Meat also print out “Your pizza is Tuna Meat !!”

if Type == 4, Total\_harga will be added Rp.38.000, set the Type as American Favorite also print out “Your pizza is American favorite !!”

if Type == 5, Total\_harga will added Rp.40.000, set the Type as Chicken lovers also print out “Your pizza is Chicken Lovers !!”

Result:

```
Select Your Pizza Type
1.Meat Lovers      | Rp.39000
2.Cheese Lovers   | Rp.40000
3.Tuna Meat       | Rp.43000
4.American Favorite | Rp.38000
5.Chicken Lovers  | Rp.40000
```

```
33 # Size
34 size = input('Please Choose the size for your pizza ( S(No Charge), M(25k), L(45k)) : ')
35 if size.lower() == "s":
36     print('Your Pizza Size is Small ( S )')
37     Total_harga += 0
38 if size.lower() == "m":
39     print('Your Pizza Size is Medium ( M )')
40     Total_harga += 25000
41 if size.lower() == "l":
42     print('Your Pizza Size is Large ( L )')
43     Total_harga += 45000
```

<= This will show and ask the user about their pizza size (S, M, L)

In line 34 will print out “please choose the size for your pizza (S (No charge), M(25k), L(45K))

And set the user input to Size

If size == “s”, Total\_harga will be added 0

If size == “m”, Total\_harga will be added 25.000

If size == “l”, Total\_harga will be added 45.000

Result:

```
Please Choose the size for your pizza ( S(No Charge), M(25k), L(45k)) : s
Your Pizza Size is Small ( S )
```

```
45 # Crust
46 crust = input('Please Choose the Crust for your pizza ( Thin(10k) or Thick(15k) : ) ')
47 if crust.lower() == "thin":
48     print('Your pizza crust is Thin')
49     Total_harga += 10000
50 if crust.lower() == "thick":
51     print('Your pizza crust is thick')
52     Total_harga += 15000
```

<= This code is going to display and ask the user about the crust type they want

In line 46 will print out “

Please Choose the crust for your pizza(thin(10k) or Thick(15k))

And the user input will set as crust

If crust == “thin”, Total\_harga will be added 10.000, also print out “your pizza crust is thin”

If crust == “thick”, Total\_harga will be added 15.000, also print out “your pizza crust is thick”

Result :

```
Please Choose the Crust for your pizza ( Thin(10k) or Thick(15k) : ) thin
Your pizza crust is Thin
```

```

54 # Extra cheese
55 chesse = input('Do you want the extra Cheese? Only For 8k !! (Y/N) : ')
56 if chesse.lower() == "y":
57     print('Okay Your pizza is filled with extra Cheese')
58     Total_harga += 8000
59 elif chesse.lower() == "n":
60     print('Your pizza has the Normal Cheese portion')

```

<= this code will ask the user if they want extra cheese in their pizza (Y/N)  
The user input will be set as cheese

If cheese == “y”, total\_harga will be added 8.000 also print out “Okay your pizza is filled with extra cheese”

If cheese == “n”, total\_harga will be added 8.000 also print out “your pizza has the normal cheese portion”

Result :

```

Do you want the extra Cheese? Only For 8k !! (Y/N) : y
Okay Your pizza is filled with extra Cheese

```

```

62 # Topping
63 Pilih_topping = input('Do you want add topping to your pizza? (Y/N) : ')
64 if Pilih_topping.lower() == "y":
65     topping = input('Please choose topping for your pizza (Onion, Peperoni, Meat, Mushroom ,Sausage)')
66     if topping.lower() == "onion":
67         print('Your topping is ', topping)
68         Total_harga += 1000
69     if topping.lower() == "peperoni":
70         print('Your topping is ', topping)
71         Total_harga += 1000
72     if topping.lower() == "meat":
73         print('Your topping is ', topping)
74         Total_harga += 1000
75     if topping.lower() == "mushroom":
76         print('Your topping is ', topping)
77         Total_harga += 1000
78     if topping.lower() == "sausage":
79         print('Your topping is ', topping)
80         Total_harga += 1000

```

<= this will ask the user if they want to add topping to their pizza (Y)

If the user input “y” then it will be set as pilih\_topping

If pilih\_topping == “y”, it will print out “ Please choose the topping for your pizza (onion, peperoni, meat, mushroom, sausage) and set is as topping

Then the user will input the topping they want, it will be set as topping

If topping == “onion”, total harga will be added 1.000 also it will print out “your topping is onion(topping)”

If topping == “peperoni”, total harga will be added 1.000 also it will print out “your topping is peperoni(topping)”

If topping == “meat”, total harga will be added 1.000 also it will print out “your topping is meat(topping)”

If topping == “mushroom”, total harga will be added 1.000 also it will print out “your topping is mushroom(topping)”

If topping == “sausage”, total harga will be added 1.000 also it will print out “your topping is sausage(topping)”

Result :

```

Please choose topping for your pizza (Onion, Peperoni, Meat, Mushroom ,Sausage)onion
Your topping is  onion

```

```

99     if Pilih_topping.lower() == "n":
100         print('Your Pizza has no topping')

```

<= this the code to respond the user if they don’t want to add topping(N)

If the user input “n” for pilih\_topping the program will print out (your pizza has no topping” and continue the program

```
81 tambah_topping1 = input('Do you want the extra topping? (Y/N) : ')
82 if tambah_topping1 == "y":
83     topping1 = input('Please choose extra topping for your pizza (Onion, Peperoni, Meat, Mushroom ,Sausage)')
84     if topping1.lower() == "onion":
85         print('Your topping is ', topping, 'with the extra', topping1)
86         Total_harga += 1000
87     if topping1.lower() == "peperoni":
88         print('Your topping is', topping, 'with the extra', topping1)
89         Total_harga += 1000
90     if topping1.lower() == "meat":
91         print('Your topping is', topping, 'with the extra', topping1)
92         Total_harga += 1000
93     if topping1.lower() == "mushroom":
94         print('Your topping is', topping, 'with the extra', topping1)
95         Total_harga += 1000
96     if topping1.lower() == "sausage":
97         print('Your topping is', topping, 'with the extra', topping1)
98         Total_harga += 1000
```

<=After user choosing the first topping, this code will ask the user if they want add extra topping

If the user input “y” then it will be set as tambah\_topping

If tambah\_topping == “y”, it will print out “ Please choose the topping for your pizza (onion, peperoni, meat, mushroom, sausage) and set it as topping1

Then the user will input the topping they want, it will be set as topping

If topping1 == “onion”, total harga will be added 1.000 also it will print out “your topping is (topping), 'with the extra', (topping1)”

If topping1 == “peperoni”, total harga will be added 1.000 also it will print out “your topping is (topping), 'with the extra', (topping1)”

If topping1 == “meat”, total harga will be added 1.000 also it will print out “your topping is (topping), 'with the extra', (topping1)”

If topping1 == “mushroom”, total harga will be added 1.000 also it will print out “your topping is (topping), 'with the extra', (topping1)”

If topping1 == “sausage”, total harga will be added 1.000 also it will print “your topping is (topping), 'with the extra', (topping1)”

Result :

```
Please choose extra topping for your pizza (Onion, Peperoni, Meat, Mushroom ,Sausage)meat
Your topping is onion with the extra meat
```

If the user input “N” for tambah\_topping the program will continue

```
102 # Total bill the user has to pay
103 print('So your total bill is : Rp.', Total_harga)
```

<= this is the code for the total bill of the user

The code will print out “so your total bill is (total\_harga))

The Full Code :

```
1  #Welcome
2  print('Welcome To Yudha Pizza Shop')
3  print('We will prepare Your Delicious Pizza Righth away ')
4
5
6  #The very first bill
7  Total_harga = 0
8
9  # Pizza type
10 print('Select Your Pizza Type')
11 print('1.Meat Lovers      | Rp.39000')
12 print('2.Cheese Lovers    | Rp.40000')
13 print('3.Tuna Meat        | Rp.43000')
14 print('4.American Favorite | Rp.38000')
15 print('5.Chicken Lovers   | Rp.40000')
16 Type = input('select your pizza ( 1-5 ): ')
17 if Type == "1":
18     print('your pizza is Meat Lovers !!')
19     Total_harga += 39000
20 if Type == "2":
21     print('your pizza is Cheese Lovers !!')
22     Total_harga += 40000
23 if Type == "3":
24     print('your pizza is Tuna Meat !!')
25     Total_harga += 43000
26 if Type == "4":
27     print('your pizza is American Favorite !!')
28     Total_harga += 38000
29 if Type == "5":
30     print('your pizza is Chiken Lovers !!')
31     Total_harga += 40000
32
33 # Size
34 size = input('Please Choose the size for your pizza ( S(No Charge), M(25k), L(45k)) : ')
35 if size.lower() == "s":
36     print('Your Pizza Size is Small ( S )')
37     Total_harga += 0
38 if size.lower() == "m":
39     print('Your Pizza Size is Medium ( M )')
40     Total_harga += 25000
41 if size.lower() == "l":
42     print('Your Pizza Size is Large ( L )')
43     Total_harga += 45000
44
45 # Crust
46 crust = input('Please Choose the Crust for your pizza ( Thin(10k) or Thick(15k) : ) ')
47 if crust.lower() == "thin":
48     print('Your pizza crust is Thin')
49     Total_harga += 10000
50 if crust.lower() == "thick":
51     print('Your pizza crust is thick')
52     Total_harga += 15000
53
54 # Extra cheese
55 chesse = input('Do you want the extra Cheese? Only For 8k !! (Y/N) : ')
56 if chesse.lower() == "y":
57     print('Okay Your pizza is filled with extra Cheese')
58     Total_harga += 8000
59 elif chesse.lower() == "n":
60     print('Your pizza has the Normal Cheese portion')
```



```

62 # Topping
63 Pilih_topping = input('Do you want add topping to your pizza? (Y/N) : ')
64 if Pilih_topping.lower() == "y":
65     topping = input('Please choose topping for your pizza (Onion, Peperoni, Meat, Mushroom ,Sausage)')
66     if topping.lower() == "onion":
67         print('Your topping is ', topping)
68         Total_harga += 1000
69     if topping.lower() == "peperoni":
70         print('Your topping is ', topping)
71         Total_harga += 1000
72     if topping.lower() == "meat":
73         print('Your topping is ', topping)
74         Total_harga += 1000
75     if topping.lower() == "mushroom":
76         print('Your topping is ', topping)
77         Total_harga += 1000
78     if topping.lower() == "sausage":
79         print('Your topping is ', topping)
80         Total_harga += 1000
81 tambah_topping1 = input('Do you want the extra topping? (Y/N) : ')
82 if tambah_topping1 == "y":
83     topping1 = input('Please choose extra topping for your pizza (Onion, Peperoni, Meat, Mushroom ,Sausage)')
84     if topping1.lower() == "onion":
85         print('Your topping is ', topping,'with the extra', topping1)
86         Total_harga += 1000
87     if topping1.lower() == "peperoni":
88         print('Your topping is', topping,'with the extra', topping1)
89         Total_harga += 1000
90     if topping1.lower() == "meat":
91         print('Your topping is', topping,'with the extra', topping1)
92         Total_harga += 1000
93     if topping1.lower() == "mushroom":
94         print('Your topping is', topping,'with the extra', topping1)
95         Total_harga += 1000
96     if topping1.lower() == "sausage":
97         print('Your topping is', topping,'with the extra', topping1)
98         Total_harga += 1000

```

```

99     if Pilih_topping.lower() == "n":
100         print('Your Pizza has no topping')
101
102 # Total bill the user has to pay
103 print('So your total bill is : Rp.',Total_harga)

```

Full Simulation :

```

Welcome To Yudha Pizza Shop
We will prepare Your Delicious Pizza Righth away
Select Your Pizza Type
1.Meat Lovers      | Rp.39000
2.Cheese Lovers   | Rp.40000
3.Tuna Meat       | Rp.43000
4.American Favorite | Rp.38000
5.Chicken Lovers  | Rp.40000
select your pizza ( 1-5 ): 2
your pizza is Cheese Lovers !!
Please Choose the size for your pizza ( S(No Charge), M(25k), L(45k)) : s
Your Pizza Size is Small ( S )
Please Choose the Crust for your pizza ( Thin(10k) or Thick(15k) : ) thin
Your pizza crust is Thin
Do you want the extra Cheese? Only For 8k !! (Y/N) : y
Okay Your pizza is filled with extra Cheese
Do you want add topping to your pizza? (Y/N) : y
Please choose topping for your pizza (Onion, Peperoni, Meat, Mushroom ,Sausage)onion
Your topping is  onion
Do you want the extra topping? (Y/N) : sausage
So your total bill is : Rp. 59000

```