#### Asadullah Ishfaque

### PF Lab 04 Assignment

Q1

```
Edit Search View Project Execute Tools AStyle Window Help
Edit Search View Project Execute Tools Astyle Window Help

Select C\Users\HP\Downloads\C_Program\Uniti...

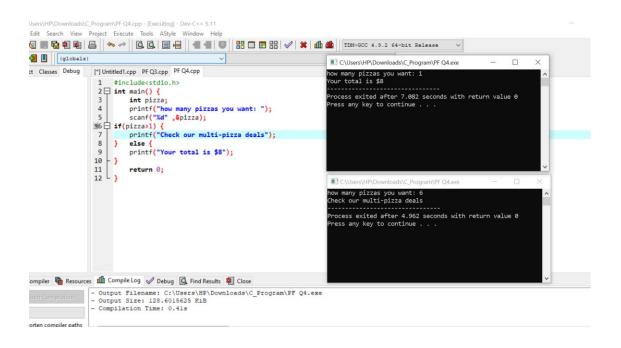
Select C\Users\HP\Downloads\C_Program\Uniti...

(qlobals)

Small Size of Pizza
ct Classes Debug
                    Untitled1.cpp
                                                                                                        rocess exited after 3.215 seconds with return value 0
                     1 #include<stdio.h>
                                                                                                         ess any key to continue . . .
                                                                                                                                                             2 ☐ int main() {
                               int size;
                               printf("Choose Pizza Size: ");
scanf("%d" ,&size);
switch(size) {
                     6日
                                    case 1: printf("Small Size of Pizza");
                                                                                                       C\Users\HP\Downloads\C Program\Untitled1 exe
                      8
                                    break;
case 2: printf("Medium Size Of Pizza");
                                                                                                        edium Size Of Pizza
                    10
                                              break:
                    11
                                    case 3: printf("Large Size Of Pizza");
                                                                                                        rocess exited after 1.837 seconds with return value 0
                    12
                                              break:
                                                                                                         ress any key to continue . .
                                    default: printf("Invalid Size");
                    13
                    15
                                return 0:
                                                                                                        rocess exited after 1.686 seconds with return value 0
                                                                                                         ess any key to continue . . .
Compiler 🖷 Resources 🛍 Compile Log 🤣 Debug 🔼 Find Results 🍇 Close

    C:\Users\HP\Downloads\C_Program\Untitled1.exe

                   - Output Filename: C:\Users\HP\Downloads\C Program\Untitledl.exe
                     Output Size: 128.6015625 KiB
Compilation Time: 0.38s
                                                                                                       rocess exited after 2.252 seconds with return value 0 ress any key to continue . . .
orten compiler paths
15 Col: 5
                     Sel: 0 Lines: 16 Length: 356
                                                                              Done parsing in 0.032 secon
                                                                  Insert
```



#### Q3

```
C:\Users\HP\Downloads\C_Program\PF Q3.cpp - [Executing] - Dev-C++ 5.11
                                                                                                                     ■ C:\Users\HP\Downloads\C_Program\PF Q3.exe
                                                                                                                                                                               le Edit Search View Project Execute Tools AStyle Window Help
                                                                                                                     dow many pizza you want(1, 2, or 3): 1
l pizza costs $8
[globals]
                                                                                                                     Process exited after 7.111 seconds with return value 	heta Press any key to continue . . .
roject Classes Debug [*] Untitled1.cpp PF Q3.cpp
                          1 #includesstdio.h>
                          2 ☐ int main() {
                                    int Number_of_pizzas;
                                    printf("How many pizza you want(1, 2, or 3): ");
scanf("%d" ,&Number_of_pizzas);
if(Number_of_pizzas==1) {
                          4
                                                                                                                      ow many pizza you want(1, 2, or 3): 2
pizzas cost $15
                                                                                                                      rocess exited after 1.24 seconds with return value 0 ress any key to continue . . .
                                    printf("1 pizza costs $8");
} else if(Number_of_pizzas==2) {
                                          printf("2 pizzas cost $15");
                                    } else if(Number_of_pizzas==3) {
   printf("3 pizzas cost $21");
                         10
                         11
                                                                                                                     C:\Users\HP\Downloads\C Program\PF Q3.exe
                         12
                                     } else {
                                                                                                                      ow many pizza you want(1, 2, or 3): 3
pizzas cost $21
                                         printf("Invalid Number");
                         13
                         14
                                                                                                                      pizzas cost 521
-------
rocess exited after 1.268 seconds with return value 0
ress any key to continue . . .
                         15
                         16
                                     return 0:
                         17 L }
                                                                                                                      How many pizza you want(1, 2, or 3): 4
Invalid Number
                                                                                                                      rocess exited after 1.824 seconds with return value 0
Compiler 🖷 Resources 🛍 Compile Log 🤣 Debug 🗓 Find Results 🍇 Close
                                                                                                                       ress any key to continue . .
                        - Output Filename: C:\Users\HF\Downloads\C_Program\PF Q3.exe
- Output Size: 128.6015625 KiB
                          Compilation Time: 0.42s
Shorten compiler paths
```

```
Edit Search View Project Execute Tools AStyle Window Help
(globals)
ect Classes Debug PF Q3.cpp PF Q4..cpp [*] Untitled1.cpp PF Q4.cpp
                    1 #include<stdio.h>
                    2 ☐ int main() {
                             printf("enter crust type\nRegular Crust=$0\nThin Crust=$1\nStuffed Crust=$2\n ");
                             int Base_cost;
                             printf("Enter Base Pizza Cost: ");
scanf("%d" ,&Base_cost);
                                                                                                 ■ C:\Users\HP\Downloads\C_Program\PF Q4..exe
                                                                                                                                                      enter crust type
                                                                                                Regular Crust=$0
Thin Crust=$1
Stuffed Crust=$2
Enter Base Pizza Cost: 10
                             int crust;
printf(" Enter crust type: ");
scanf("%d" ,&crust);
                   8
9
10 □
                             switch(crust) {
                                                                                                  Enter crust type: 2
otal Cost: 12
                   11
                              case 0: printf("Total Cost: %d", Base_cost + 0 );
                   12
                                     break:
                   13
                              case 1: printf("Total Cost: %d", Base_cost + 1);
                                                                                                  rocess exited after 4.284 seconds with return value 0
                   14
                                     break:
                                                                                                   ess any key to continue . .
                   15
                              case 2: printf("Total Cost: %d", Base_cost + 2);
                   16
                                     break:
                   17
                             default: printf("Choose Value Between 1 to 3 ");
                   18
                       - }
                   19
                             return 0;
Compiler 🖷 Resources 🛍 Compile Log 🤣 Debug 🔼 Find Results 🐉 Close
                 - Output Filename: C:\Users\HP\Downloads\C_Program\PF Q4..exe
- Output Size: 128.6015625 KiB
- Compilation Time: 0.39s
```

### Asadullah Ishfaque

## PF Lab 04 Assignment

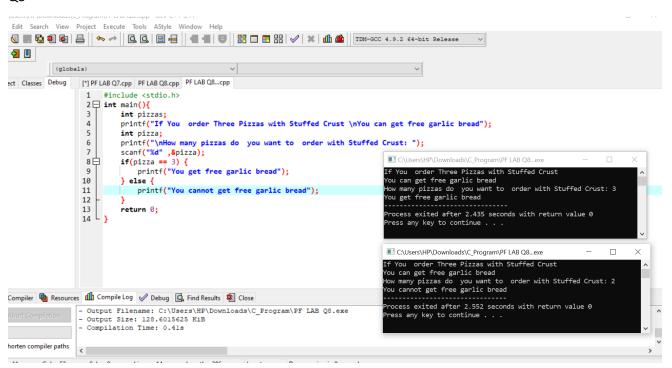
Q5

```
Edit Search View Project Execute Tools AStyle Window Help
No = 0
Pizza is $8
          (globals)
                                                                              ou want extra cheese: 1
otal cost: 9.500000
                  PF theory Q3.cpp PF LAB 4 Q5.cpp
ct Classes Debug
                  rocess exited after 2.938 seconds with return value 0 ress any key to continue . . .
                                                                             ■ C:\Users\HP\Downloads\C_Program\PF LAB 4 Q5.exe
                           return 0;
                                                                             No = 0
Pizza is $8
                  11
                                                                              ou want extra cheese: 0
Otal cost: 0.000000
                                                                              rocess exited after 2.135 seconds with return value 	heta ress any key to continue . . .
Compiler 🖷 Resources 🛍 Compile Log 🤣 Debug 🗓 Find Results 🛍 Close
                 - Output Filename: C:\Users\HP\Downloads\C_Program\PF LAB 4 Q5.exe
- Output Size: 128.7705078125 KiB
```

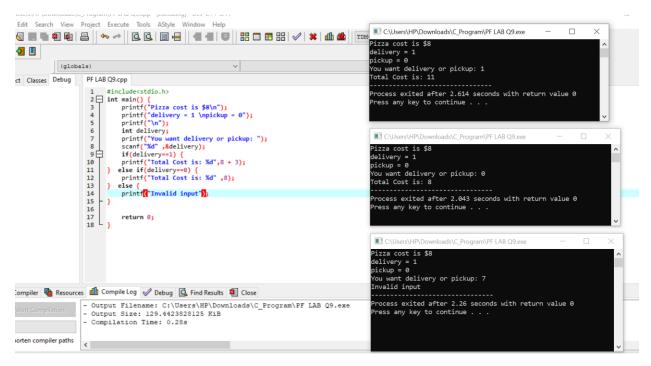
```
sers\HP\Downloads\C_Program\PF lab Q6.cpp - [Executing] - Dev-C++ 5.11
                                                                                                                                               C:\Users\HP\Downloads\C_Program\PF lab Q6.exe
dit Search View Project Execute Tools AStyle Window Help
                                                                                                                                             Pizza price is $8
Between 11 AM and 2 PM, there is a 10 percent discount.
] 🔛 🔁 🐿 🛍 🚇 🔛 🖴 💉 🖟 🚨 🗀 \end{vmatrix} 🖟 🕳 🖟 🚾 🖽 🖽 🐿 🗀 🖼 🗀 🖽 🗸 🛣 🗓 🖽
                                                                                                                                               our purchasing time is
I
             (globals)
                                                                                                                                                fter discount price will be: 7.200000
 Classes Debug
                       PF theory Q3.cpp [*] PF LAB 4 Q5.cpp PF lab Q6.cpp
                                                                                                                                                rocess exited after 3.155 seconds with return value 0 ress any key to continue . . .
                          1 #include<std:
2  int main() {</pre>
                                 #include<stdio.h>
                                      //float discount;
    printf("Pizza price is $8\n");
    float time;
printf("Setween 11 AM and 2 PM, there is a 10 percent discount.\n");
printf("Your purchasing time is:\n ");
scanf("%", %time);
float total_discount= 8-(8*0.1);
if(time>=11 && time<=14 ) {
    printf("after discount price will be: %f", 8-(8*0.1));
} else {
    printf("nrice is: 8");
}</pre>
                         10 =
11
12
                         13
14
15
                                            printf("price is: 8");
                                                                                                                                               C:\Users\HP\Downloads\C_Program\PF lab Q6.exe
                                                                                                                                              Pizza price is $8
Between 11 AM and 2 PM, there is a 10 percent discount.
Your purchasing time is:
                         16
                                       return 0;
                                                                                                                                                rocess exited after 3.645 seconds with return value 0
                                                                                                                                                ress any key to continue . .
mpiler 🖷 Resources 🛍 Compile Log 🤣 Debug 🚨 Find Results 💐 Close
                        - Output Filename: C:\Users\HP\Downloads\C_Program\PF lab Q6.exe
- Output Size: 128.7705078125 KiB
```

Q7

```
Classes Debug [*] PF LAB Q7.cpp
                      #include <stdio.h>
                 2 ☐ int main(){
                           int Student_ID;
                           printf("In Students have a Student ID then \nSubtract $2 from total");
printf("\nYes = 1");
                 4
                           printf("\nNo = 0 ");
printf("\nEnter you have Student ID (Y/N): ");
scanf("%d",&Student_ID);
                                                                                                            C:\Users\HP\Downloads\C_Program\PF LAB Q7... -
                                                                                                                                                             If Students have a Student ID then
Subtract $2 from total
                 8
                 9 🖨
                           if(Student_ID == 1) {
                            printf("Your Total cost is $6");
                10
                11
                                                                                                             nter you have Student ID (Y/N): 1
our Total cost is $6
                12 🖨
                            else if (Student_ID == 0) {
                            printf("Your Total cost is $8");
                13
                                                                                                             rocess exited after 1.4 seconds with return value 0 ress any key to continue . . .
                15
                           return 0;
                                                                                                            'es = 1
ipiler 🖣 Resources 🛍 Compile Log 🤣 Debug 🔼 Find Results 🐐 Close
                                                                                                             nter you have Student ID (Y/N): 0
our Total cost is $8
               - Output Filename: C:\Users\HP\Downloads\C_Program\PF LAB Q7.exe
- Output Size: 128.6015625 KiB
                 Compilation Time: 0.41s
                                                                                                             ocess exited after 2.125 seconds with return value 0
                                                                                                             ess any key to continue . .
```



Q9



#### 010 Part 1

```
[*] Untitled1 PF LAB Q10.cpp
Debug
                            #include<stdio.h>
                     int main() {
int size;
                                  Int size;
printf("choose pizza size: \n");
printf("1 for small\n");
printf("2 for medium\n");
printf("3 for large\n");
scanf("%d" ,&size);
switch(size) {
                     4
                    10
                                        case 1: printf("Small Size of Pizza\n");
                    11
                                                  break:
                                        case 2: printf("Medium Size Of Pizza\n");
                    13
                                                  break:
                                        case 3: printf("Large Size Of Pizza\n");
                    15
                                                   break:
                    16
                                        default: printf("Invalid Size\n"); }
                    17
18
                                  int pizza;
printf("how many pizzas you want: \n");
                                  scanf("%d" ,&pizza);
                    19
                    20 if(pizza>1)
                    21
22
                                  printf("Check our multi-pizza deals\n");
                    23
                                  printf("Your total is $8 \n");
                    24
                    25
                                  int Number_of_pizzas;
                    26
                                  int Number_of_pizzas;
printf("Now many pizza you want(1, 2, or 3): \n");
scanf("%d" ,&Number_of_pizzas);
if(Number_of_pizzas==1) {
    printf("1 pizza costs $8 \m");
} else if(Number_of_pizzas==2) {
                    27
                    28
                    29
                    30
                    32
33
                                  printf("2 pizzas cost $15 \n");
} else if(Number_of_pizzas==3) {
                    34
35
                                  printf("3 pizzas cost $21\n");
} else {
                                       printf("Invalid Number");
Resources of Compile Loa Debug  Find Results
```

Q10 Part 2

```
(globals)
          [*] Untitled1 PF LAB Q10.cpp
Debug
           37
           38
           39
                     printf("enter crust type\nRegular Crust=$0\nThin Crust=$1\nStuffed Crust=$2\n ");
           40
                      int Base_cost;
                     printf("Enter Base Pizza Cost: \n");
           41
                      scanf("%d" ,&Base_cost);
           42
           43
                      int crust;
           44
                     printf(" Enter crust type: \n");
                      scanf("%d" ,&crust);
           45
           46 -
                      switch(crust) {
           47
                      case 0: printf("Total Cost: %d\n", Base_cost + 0 );
           48
                             break;
           49
                      case 1: printf("Total Cost: %d\n", Base_cost + 1);
           50
                             break;
           51
                      case 2: printf("Total Cost: %d\n", Base_cost + 2);
           52
                             break;
                      default: printf("Choose Value Between 1 to 3 \n");
           53
           54
           55
                     float Without_cheese = 8;
                     printf("Without Cheese Pizza is: %f" ,Without_cheese);
           56
                     printf("\nYes = 1\nNo = 2\n");
           57
                      int Yes;
           58
           59
                     printf("You want extra cheese (Y/N):\n ");
           60
                      scanf("%d" ,&Yes);
           61 -
                      if(Yes==1) {
                         printf("Total: %f\n" ,9.5);
           62
           63
                      } else {
                         printf("Total: %f\n" ,8);
           64
           65
                         printf("Pizza price is $8\n");
           66
           67
                         float time;
                      printf("Between 11 AM and 14 PM, there is a 10 percent discount.\n");
           68
                     printf("Your purchasing time is:\n ");
           69
           70
                      scanf("%f", &time);
                     float total_discount= 8-(8*0.1);
           71
                     if(time>=11 && time<=14 ) {
           72 —
Resources 📶 Compile Log 🧭 Debug 🔍 Find Results
```

#### **Q10** Part 3

```
(globals)
Debug
             [*] Untitled1 PF LAB Q10.cpp PF LAB Q10;.cpp 10.cpp
              73
                                printf("after discount price will be: %f \n", 8-(8*0.1));
              74
                              else {
              75
                                printf("price is: 8");
              76
              77
                           int Student_ID;
                           printf("If Students have a Student ID then \nSubtract $2 from total \n");
printf("\nYes = 1");
printf("\nNo = 0 ");
printf("\nEnter you have Student ID (Y/N): \n");
scanf("%d", 8Student_ID);
if(Student_ID = 1);
              78
              79
              80
              81
              82
              83 🖃
                            if(Student_ID == 1) {
                             printf("Your Total cost is $6\n");
              84
              85
              86
                            else if (Student_ID == 0) {
              87
                             printf("Your Total cost is $8\n");
              88
              89
                           printf("If you Order Three Pizzas with Stuffed Crust, \nYou can get free garlic bread");
printf("\nHow many pizzas do you want to order with Stuffed Crust: \n");
              90
              91
                           scanf("%d", &pizza);
if(pizza == 3) {
              92
              93 🗀
                                printf("You get free garlic bread \n");
              94
              95
                            } else {{
              96
                                printf("You cannot get free garlic bread \n");
              97
              98
                           printf("Pizza cost is $8\n");
                           printf("delivery = 1 \npickup = 0");
printf("\n");
              99
             100
                           int delivery;
             101
                           printf("You want delivery or pickup: \n");
scanf("%d" ,&delivery);
             102
             103
             104
                           if(delivery==1) {
             105
                           printf("Cost is: %d \n",8 + 3);
             106
                          else if(delivery==0)
                           printf("Cost is: %d \n" ,8);
             107
                          else {
             108
Resources (III) Compile Log 💚 Debug 🗓 Find Results
```

#### Q10 Part 4

```
} else {
              95
              96
                            printf("You cannot get free garlic bread \n");
              97
              98
                        printf("Pizza cost is $8\n");
              99
                        printf("delivery = 1 \npickup = 0");
                        printf("\n");
             100
             101
                        int delivery;
                        printf("You want delivery or pickup: \n");
             102
             103
                        scanf("%d" ,&delivery);
             104 -
                        if(delivery==1) {
                        printf("Cost is: %d \n",8 + 3);
             105
             106
                    } else if(delivery==0) {
             107
                       printf("Cost is: %d \n" ,8);
                    } else {
             108
             109
                        printf("Invalid input \n");
             110
             111
                   int final_amount;
                    printf("Print Fee Receipt:- \n");
             112
             113
                    printf("Your Final Amount is: %d \n" ,11);
             114
                    printf("You got free fries for regular costumer");
                        return 0;
             115
             116
(A)
      after a second
```

#### Q10 Output