PF LAB 05

Task 01:

Task01.c | Untitled2

```c
#include <stdio.h>
#include <conio.h>

int main () {

    int time=0;

    printf("Enter the time : ");
    scanf("%d", &time);

    if (time>=5 && time<=11) {
        printf("Good morning.");
    }

        else if (time >= 12 && time<=18) {
            printf("Good evening.");
        }

        else if (time>18 && time<=23 || time == 0) {
            printf("Good night.");
        }

        else if (time>=1 && time<5) {
            printf("ERROR");
        }

    else {
    }

    return 0;

    }
```

```
C:\Users\test23\Desktop\PF LAB 05 - 23K 2005\Task01....
Enter the time : 15
Good evening.
--------------------------------
Process exited after 1.629 seconds with return value 0
Press any key to continue . . .
```

Task 02:

main.c

```c
#include <stdio.h>

int main() {

    int LI;

    printf("Enter the light intensity: ");
    scanf("%d", &LI);


    if (LI>=0 && LI<100)
        printf("Evening");

    else if (LI>=100 && LI<=500)
        printf("Lightning");

    else if (LI>500) {
        printf("Sunshine");
    }


    else { }

    return 0;
}

```

input

```
Enter the light intensity: 500
Lightning

...Program finished with exit code 0
Press ENTER to exit console.
```

Task 03:

Task01.c | Task02.c | Task 03.c | Task 04.c

```c
#include <stdio.h>
#include <conio.h>

int main () {
    float fsc=0,nts=0;

    printf("Enter your FSc percentage = ");
    scanf("%f", &fsc);
    printf("Enter your NTs percentage = ");
    scanf("%f", &nts);

    if (fsc>70 && nts>70) {
        printf("\nCongratulations! You been selected for IT in Oxford.\n");
    }

    else if (fsc>70 && nts>60){
        printf("\nCongratulations! You been selected for Electronics in Oxford.\n");
    }

    else if (fsc>70 && nts>50){
        printf("\nCongratulations! You been selected for Telecommunications in Oxford.\n");
    }

    else if (fsc>=60 && fsc<70 && nts>=50) {
        printf("\nCongratulations! You been selected for IT in MIT.");
    }

    else if (fsc>=50 && fsc<=59 && nts>=50){
        printf("\nCongratulations! You been selected for Chemical in MIT.");
```

C:\Users\test23\Desktop\PF LAB 05 - 23K 2005\Task 0...

```
Enter your FSc percentage = 85
Enter your NTs percentage = 85

Congratulations! You been selected for IT in Oxford.

--------------------------------
Process exited after 1.484 seconds with return value 0
Press any key to continue . . .
```

Task 04:

Task01.c | Task02.c | Task 03.c | Task 04.c | Untitled5

```c
#include <stdio.h>
#include <conio.h>

int main () {

    float scale;

    printf("Enter the Richter scale number = ");
    scanf("%f",&scale);

    if (scale<5.0){
        printf("Little or no damage.");
    }
    else if (scale>=5.0 && scale<5.5) {
        printf("Some damage");
    }
    else if (scale>=5.5 && scale<6.5) {
        printf("Serious damage: Walls may break or crack.");
        }
    else if (scale>=6.5 && scale<7.5) {
        printf("Disaster: House and buildings may collapse.");
        }
    else if (scale>7.5) {
        printf("Catastroph: Most buildings destroyed.");
        }

return 0;
}
```

```
C:\Users\test23\Desktop\PF LAB 05 - 23K 2005\Task 04....
Enter the Richter scale number = 5.6
Serious damage: Walls may break or crack.
--------------------------------
Process exited after 1.234 seconds with return value 0
Press any key to continue . . .
```

Task 05:

```c
#include <stdio.h>
#include <conio.h>

int main () {

    int burger=200, fries=50, pizza=500, sandwiches=150, total_snacks, quantity_first, quantity_second, price=0, price1=0, price2=0, total_quantity;
    char  first_snack, second_snack;

    // MENU:
    printf("\t\tABC Restaurant Online Order Placement\n\t\t\tWelcome\n\n");
    printf("Please select from the following Menu\n");
    printf("B = Burger\t\t(Rs 200)\n");
    printf("F = French Fries\t(Rs 50)\n");
    printf("P = Pizza\t\t(Rs 500)\n");
    printf("S = Sandwiches\t\t(Rs 150)\n\n");


    // TAKING ORDER FROM CUSTOMER:
    printf("How many types of snack do you want to order: ");
    scanf("%d", &total_snacks);

    printf("Enter the first snack you want to order: ");
    scanf(" %c", &first_snack);

    switch (first_snack) {

    case 'B':
            printf("Please provide quantity: ");
            scanf("%d", &quantity_first);
            price1 = burger * quantity_first;
            break;

    case 'F':
            printf("Please provide quantity: ");
            scanf("%d", &quantity_first);
            price1 = fries * quantity_first;
            break;

    case 'P':
            printf("Please provide quantity: ");
            scanf("%d", &quantity_first);
            price1 = pizza * quantity_first;
            break;

    case 'S':
            printf("Please provide quantity: ");
            scanf("%d", &quantity_first);
            price1 = sandwiches * quantity_first;
            break;

    default:
        printf("Invalid item.\n");
        break; }
```

```c
    printf("Enter the second snack you want to order: ");
    scanf(" %c", &second_snack);

    switch (second_snack) {

    case 'B':
            printf("Please provide quantity: ");
            scanf("%d", &quantity_second);
            price2 = burger * quantity_second;
            break;

    case 'F':
            printf("Please provide quantity: ");
            scanf("%d", &quantity_second);
            price2 = fries * quantity_second;
            break;

    case 'P':
            printf("Please provide quantity: ");
            scanf("%d", &quantity_second);
            price2 = pizza * quantity_second;
            break;

    case 'S':
            printf("Please provide quantity: ");
            scanf("%d", &quantity_second);
            price2 = sandwiches * quantity_second;
            break;

    default:
        printf("Invalid item.\n");
        break; }



    printf("----------------------------------------------------------------------\n");
    total_quantity = quantity_first + quantity_second;
    printf("You have ordered %d items!\n", total_quantity);
    printf("%d %c (s) value %d\n", quantity_first, first_snack, price1);
    printf("%d %c (s) value %d\n", quantity_second, second_snack, price2);
    price = price1 + price2;
    printf("Total: %d PKR\n", price);
    printf("Thank you for your order. Have a nice day!");


    return 0;
    }
```

C:\Users\3TEE\Desktop\PF LAB 05\Task 05.exe

```
                ABC Restaurant Online Order Placement
                        Welcome

Please select from the following Menu
B = Burger                (Rs 200)
F = French Fries          (Rs 50)
P = Pizza                 (Rs 500)
S = Sandwiches            (Rs 150)

How many types of snack do you want to order: 2
Enter the first snack you want to order: B
Please provide quantity: 5
Enter the second snack you want to order: S
Please provide quantity: 3
----------------------------------------------------------------------
You have ordered 8 items!
5 B (s) value 1000
3 S (s) value 450
Total: 1450 PKR
Thank you for your order. Have a nice day!
--------------------------------
Process exited after 17.28 seconds with return value 0
Press any key to continue . . .
```

Task 06:

Task 06.c

```c
#include <stdio.h>

int main() {

    float time_mins=0, time_hr=0;
    char type, is_manual, cup_size;

    printf("Enter the coffee type (B/W): ");
    scanf(" %c", &type);


    printf("Is the coffee manual: ");
    scanf(" %c", &is_manual);
    if (is_manual=='Y') {
        printf("Coffee is manual\n\n");
    }
    else {
        printf("Coffee is not manual\n\n"); }

    printf("Enter the size of the cup (small=s, double=d): ");
    scanf(" %c", &cup_size);




    switch (type) {
        case 'W':
            printf("Put water\n");
            time_mins += 15;
            printf("Add sugar\n");
            time_mins += 15;
            printf("Mix well\n");
            time_mins += 20;
            printf("Add coffee\n");
            time_mins += 2;
            printf("Add milk\n");
            time_mins += 4;
            printf("Mix well\n");
            time_mins += 20;
            time_hr = time_mins / 60;
            if (cup_size=='d') {
                time_mins *= 1.5;
                time_hr = time_mins / 60;}
            printf("Total expected time: %.2f minute(s) or %.2f hour(s)", time_mins, time_hr);
            break;
```

```
46
47          case 'B':
48              printf("Put water\n");
49              time_mins += 20;
50              printf("Add sugar\n");
51              time_mins += 20;
52              printf("Mix well\n");
53              time_mins += 25;
54              printf("Add coffee\n");
55              time_mins += 15;
56              printf("Add milk\n");
57              printf("Mix well\n");
58              time_mins += 25;
59              time_hr = time_mins / 60;
60              if (cup_size=='d') {
61                  time_mins *= 1.5;
62                  time_hr = time_mins / 60; }
63              printf("Total expected time: %.2f minute(s) or %.2f hour(s)", time_mins, time_hr);
64              break;
65          }
66
67      return 0;
68  }
69
```

```
C:\Users\3TEE\Desktop\PF LAB 05\Task 06.exe
Enter the coffee type (B/W): B
Is the coffee manual: Y
Coffee is manual

Enter the size of the cup (small=s, double=d): s
Put water
Add sugar
Mix well
Add coffee
Add milk
Mix well
Total expected time: 105.00 minute(s) or 1.75 hour(s)
--------------------------------
Process exited after 11.82 seconds with return value 0
Press any key to continue . . .
```