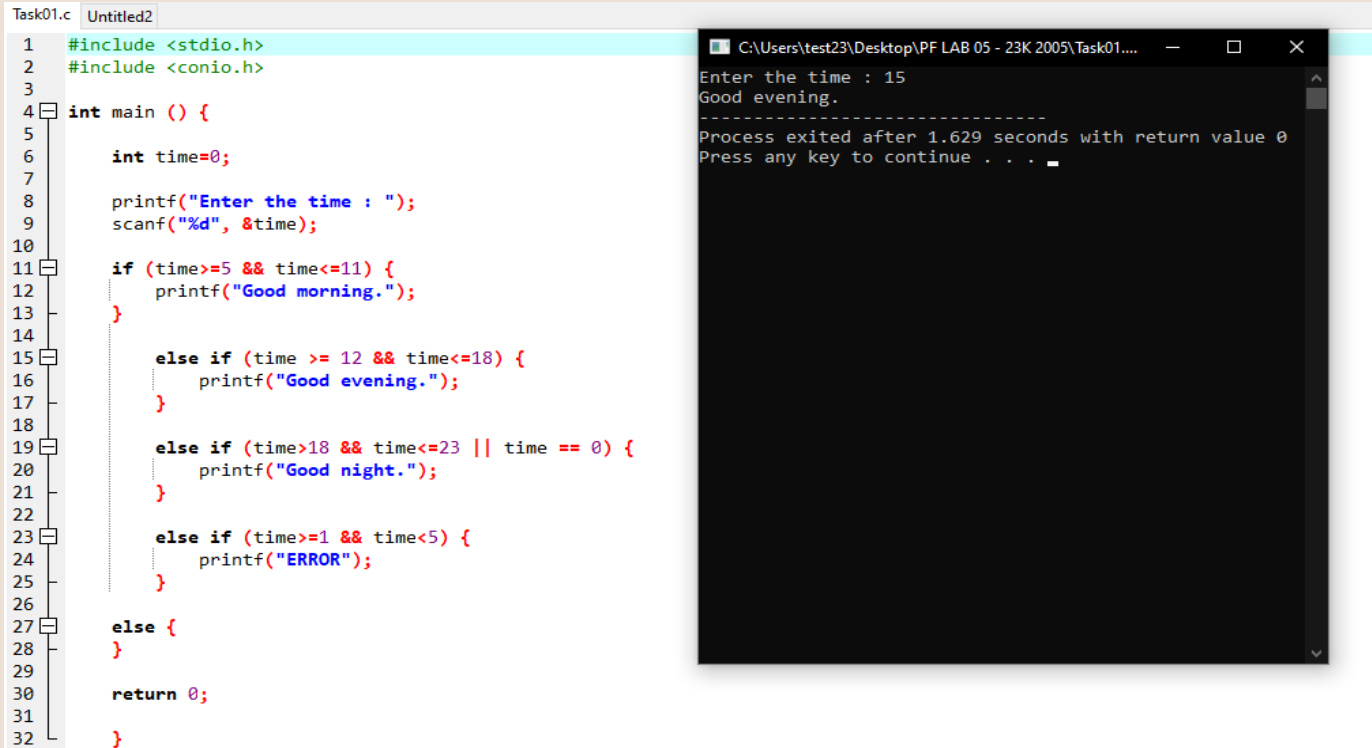


PF LAB 05

Task 01:



The image shows a C program in a text editor and its execution in a command prompt. The program is named Task01.c and is titled 'Untitled2'. It includes `<stdio.h>` and `<conio.h>`. The `main` function declares an integer `time` and prompts the user to enter a time. It then uses a series of `if` and `else if` statements to determine the time of day and print a greeting: 'Good morning.' for times between 5 and 11, 'Good evening.' for times between 12 and 18, and 'Good night.' for times between 18 and 23, or at time 0. If the time is outside these ranges (1 to 5), it prints 'ERROR'. The program returns 0 and the user is prompted to press any key to continue.

```
Task01.c  Untitled2
1  #include <stdio.h>
2  #include <conio.h>
3
4  int main () {
5
6      int time=0;
7
8      printf("Enter the time : ");
9      scanf("%d", &time);
10
11     if (time>=5 && time<=11) {
12         printf("Good morning.");
13     }
14
15     else if (time >= 12 && time<=18) {
16         printf("Good evening.");
17     }
18
19     else if (time>18 && time<=23 || time == 0) {
20         printf("Good night.");
21     }
22
23     else if (time>=1 && time<5) {
24         printf("ERROR");
25     }
26
27     else {
28     }
29
30     return 0;
31
32 }
```

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
1  #include <stdio.h>
2
3  int main() {
4
5      int LI;
6
7      printf("Enter the light intensity: ");
8      scanf("%d", &LI);
9
10
11     if (LI>=0 && LI<100)
12         printf("Evening");
13
14     else if (LI>=100 && LI<=500)
15         printf("Lightning");
16
17     else if (LI>500) {
18         printf("Sunshine");
19     }
20
21     else { }
22
23     return 0;
24 }
25
26
```

input

Enter the light intensity: 500
Lightning

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

Task 03:

```
Task01.c Task02.c Task03.c Task04.c
1  #include <stdio.h>
2  #include <conio.h>
3
4  int main () {
5      float fsc=0,nts=0;
6
7      printf("Enter your FSc percentage = ");
8      scanf("%f", &fsc);
9      printf("Enter your NTs percentage = ");
10     scanf("%f", &nts);
11
12     if (fsc>70 && nts>70) {
13         printf("\nCongratulations! You been selected for IT in Oxford.\n");
14     }
15
16     else if (fsc>70 && nts>60){
17         printf("\nCongratulations! You been selected for Electronics in Oxford.\n");
18     }
19
20     else if (fsc>70 && nts>50){
21         printf("\nCongratulations! You been selected for Telecommunications in Oxford.\n");
22     }
23
24     else if (fsc>=60 && fsc<70 && nts>=50) {
25         printf("\nCongratulations! You been selected for IT in MIT.");
26     }
27
28     else if (fsc<=50 && fsc<=59 && nts>=50){
29         printf("\nCongratulations! You been selected for Chemical in MIT.");
30     }
31 }
```

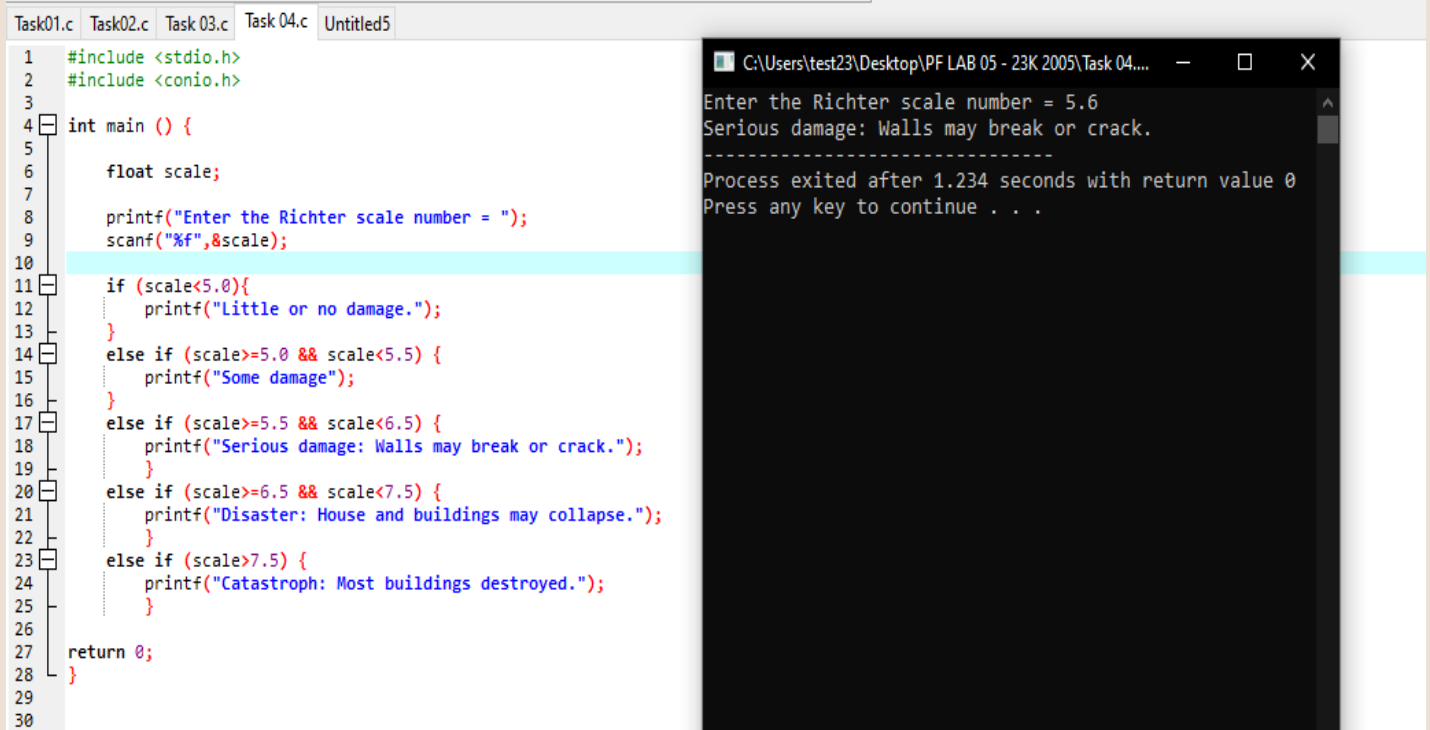
C:\Users\test23\Desktop\PF LAB 05 - 23K 2005\Task 0...

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:



The image shows a C program in a code editor and its execution output in a terminal window. The code is a C program that takes a Richter scale number as input and prints the corresponding damage description. The terminal window shows the program being executed with an input of 5.6, resulting in the output "Serious damage: Walls may break or crack." and a message indicating the process exited after 1.234 seconds.

```
Task01.c Task02.c Task03.c Task04.c Untitled5
1  #include <stdio.h>
2  #include <conio.h>
3
4  int main () {
5
6      float scale;
7
8      printf("Enter the Richter scale number = ");
9      scanf("%f",&scale);
10
11     if (scale<5.0){
12         printf("Little or no damage.");
13     }
14     else if (scale>=5.0 && scale<5.5) {
15         printf("Some damage");
16     }
17     else if (scale>=5.5 && scale<6.5) {
18         printf("Serious damage: Walls may break or crack.");
19     }
20     else if (scale>=6.5 && scale<7.5) {
21         printf("Disaster: House and buildings may collapse.");
22     }
23     else if (scale>7.5) {
24         printf("Catastroph: Most buildings destroyed.");
25     }
26
27     return 0;
28 }
29
30
```

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:

```
1 #include <stdio.h>
2 #include <conio.h>
3
4 int main () {
5
6     int burger=200, fries=50, pizza=500, sandwiches=150, total_snacks, quantity_first, quantity_second, price=0, price1=0, price2=0, total_quantity;
7     char first_snack, second_snack;
8
9     // MENU:
10    printf("\t\tABC Restaurant Online Order Placement\n\t\tWelcome\n\n");
11    printf("Please select from the following Menu\n");
12    printf("B = Burger\t\t(Rs 200)\n");
13    printf("F = French Fries\t(Rs 50)\n");
14    printf("P = Pizza\t\t(Rs 500)\n");
15    printf("S = Sandwiches\t\t(Rs 150)\n\n");
16
17
18    // TAKING ORDER FROM CUSTOMER:
19    printf("How many types of snack do you want to order: ");
20    scanf("%d", &total_snacks);
21
22    printf("Enter the first snack you want to order: ");
23    scanf(" %c", &first_snack);
24
25    switch (first_snack) {
26
27        case 'B':
28            printf("Please provide quantity: ");
29            scanf("%d", &quantity_first);
30            price1 = burger * quantity_first;
31            break;
32
33        case 'F':
34            printf("Please provide quantity: ");
35            scanf("%d", &quantity_first);
36            price1 = fries * quantity_first;
37            break;
38
39        case 'P':
40            printf("Please provide quantity: ");
41            scanf("%d", &quantity_first);
42            price1 = pizza * quantity_first;
43            break;
44
45        case 'S':
46            printf("Please provide quantity: ");
47            scanf("%d", &quantity_first);
48            price1 = sandwiches * quantity_first;
49            break;
50
51        default:
52            printf("Invalid item.\n");
53            break; }
```

```

55
56 printf("Enter the second snack you want to order: ");
57 scanf(" %c", &second_snack);
58
59 switch (second_snack) {
60
61     case 'B':
62         printf("Please provide quantity: ");
63         scanf("%d", &quantity_second);
64         price2 = burger * quantity_second;
65         break;
66
67     case 'F':
68         printf("Please provide quantity: ");
69         scanf("%d", &quantity_second);
70         price2 = fries * quantity_second;
71         break;
72
73     case 'P':
74         printf("Please provide quantity: ");
75         scanf("%d", &quantity_second);
76         price2 = pizza * quantity_second;
77         break;
78
79     case 'S':
80         printf("Please provide quantity: ");
81         scanf("%d", &quantity_second);
82         price2 = sandwiches * quantity_second;
83         break;
84
85     default:
86         printf("Invalid item.\n");
87         break; }
88
89
90
91 printf("-----\n");
92 total_quantity = quantity_first + quantity_second;
93 printf("You have ordered %d items!\n", total_quantity);
94 printf("%d %c (s) value %d\n", quantity_first, first_snack, price1);
95 printf("%d %c (s) value %d\n", quantity_second, second_snack, price2);
96 price = price1 + price2;
97 printf("Total: %d PKR\n", price);
98 printf("Thank you for your order. Have a nice day!");
99
100
101 return 0;
102 }
103

```

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

```
1  #include <stdio.h>
2
3  int main() {
4
5      float time_mins=0, time_hr=0;
6      char type, is_manual, cup_size;
7
8      printf("Enter the coffee type (B/W): ");
9      scanf(" %c", &type);
10
11
12      printf("Is the coffee manual: ");
13      scanf(" %c", &is_manual);
14      if (is_manual=='Y') {
15          printf("Coffee is manual\n\n");
16      }
17      else {
18          printf("Coffee is not manual\n\n"); }
19
20      printf("Enter the size of the cup (small=s, double=d): ");
21      scanf(" %c", &cup_size);
22
23
24
25
26      switch (type) {
27          case 'W':
28              printf("Put water\n");
29              time_mins += 15;
30              printf("Add sugar\n");
31              time_mins += 15;
32              printf("Mix well\n");
33              time_mins += 20;
34              printf("Add coffee\n");
35              time_mins += 2;
36              printf("Add milk\n");
37              time_mins += 4;
38              printf("Mix well\n");
39              time_mins += 20;
40              time_hr = time_mins / 60;
41              if (cup_size=='d') {
42                  time_mins *= 1.5;
43                  time_hr = time_mins / 60;}
44              printf("Total expected time: %.2f minute(s) or %.2f hour(s)", time_mins, time_hr);
45              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 . . .

```