

Institute of Technology of Cambodia



Department of Information and Communication Engineering (GIC)

Assignment4 Lab3- Working with IF syntax

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Subject : Algorithms and Programming (TP)

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Start here X 18. C programming.c X 17. C programming.c X *16. C programming.c X 15. C programming.c X 14. C programming.c X

1 #include<stdio.h>
2 main(){
3 int nl;
4 printf("Input a number : ");
5 scanf("%d",&nl);
6 if (nl>0){
7 printf("The number is positive.");
8 }
9 else if (nl==0){
10 printf("The number Zero is neutral number.");
11 }
12 else{
13 printf("The number is negative.");
14 }
15 }
16
17 }
18

"D:\school\Year3\2. Algorithm & Programming S1\TP\14. C programming.exe"

Input a number : 6
The number is positive.
Process returned 0 (0x0) execution time : 5.085 s
Press any key to continue.
-

Start here X 18. C programming.c X 17. C programming.c X *16. C programming.c X 15. C programming.c X

1 #include<stdio.h>
2 main(){
3 int num;
4 printf("Enter a number : ");
5 scanf("%d",&num);
6 if (num%2==0){
7 printf("The number is even");
8 }
9
10 else if (num==0){
11 printf("The number is Zero");
12 }
13 else{
14 printf("The number is odd");
15 }
16 }
17 }
18

"D:\school\Year3\2. Algorithm & Programming S1\TP\15. C programming.exe"

Enter a number : 7
The number is odd
Process returned 0 (0x0) execution time : 1.294 s
Press any key to continue.
-

```

1  #include<stdio.h>
2  main() {
3      int n1,n2,n3,n4,n5,n6,n7,min;
4      printf("Enter the first number : "); scanf("%d",&n1);
5      printf("Enter the second number : "); scanf("%d",&n2);
6      printf("Enter the third number : "); scanf("%d",&n3);
7      printf("Enter the fourth number : "); scanf("%d",&n4);
8      printf("Enter the fifth number : "); scanf("%d",&n5);
9      printf("Enter the sixth number : "); scanf("%d",&n6);
10     printf("Enter the seventh number : "); scanf("%d",&n7);
11     min=n1;
12     if (min>n2){
13         min=n2;
14     }
15     if (min>n3){
16         min=n3;
17     }
18     if (min>n4){
19         min=n4;
20     }
21     if (min>n5){
22         min=n5;
23     }
24     if (min>n6){
25         min=n6;
26     }
27     if (min>n7){
28         min=n7;
29     }
30
31     printf("The minimum number is %d.",min);
32 }

```

"D:\school\Year3\2. Algorithm & Programming S1\TP\16. C programming.exe"

```

Enter the first number : 1
Enter the second number : 2
Enter the third number : 3
Enter the fourth number : 4
Enter the fifth number : 5
Enter the sixth number : 6
Enter the seventh number : 7
The minimum number is 1.
Process returned 0 (0x0)    execution time : 27.152 s
Press any key to continue.

```

```

1  #include<stdio.h>
2  #include<math.h>
3  main() {
4      float a,b,c,d,x1,x2;
5      printf("Input a : "); scanf("%f",&a);
6      printf("Input b : "); scanf("%f",&b);
7      printf("Input c : "); scanf("%f",&c);
8      d=pow(b,2)-4*a*c;
9      if (d>0){
10         x1=(-b+sqrt(d))/(2*a);
11         x2=(-b-sqrt(d))/(2*a);
12         printf("The equation has root: x1=%.3f and x2=%.3f",x1,x2);
13     }
14     else if (d==0){
15         x1=-b/(2*a);
16         printf("The equation has root: x1=x2=%.3f",x1);
17     }
18     else{
19         printf("The equation has no root.");
20     }
21 }
22
23
24

```

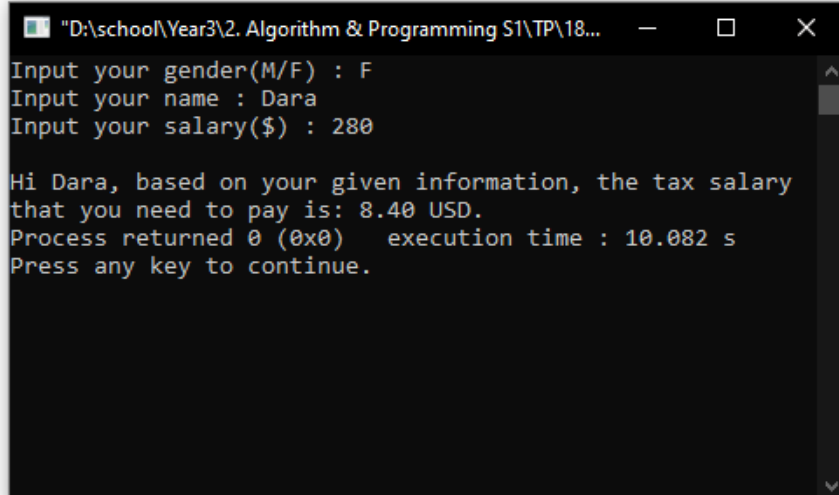
"D:\school\Year3\2. Algorithm & Programming S1\TP\17. C programming.exe"

```

Input a : 1
Input b : 3
Input c : 2
The equation has root: x1=-1.000 and x2=-2.000
Process returned 0 (0x0)    execution time : 4.563 s
Press any key to continue.

```

```
1  #include<stdio.h>
2  main(){
3      char gender;
4      char name[20];
5      float salary,tax;
6
7      printf("Input your gender(M/F) : "); scanf("%c",&gender);
8      printf("Input your name : "); scanf("%s",&name);
9      printf("Input your salary($) : "); scanf("%f",&salary);
10
11     if (gender=='M'|gender=='m'){
12         if (salary>300){
13             tax=(salary/100.0)*10;
14         }
15         else if (salary>=200){
16             tax=(salary/100.0)*5;
17         }
18         else {
19             tax=0;
20         }
21     }
22     else if (gender=='F'|gender=='f'){
23         if (salary>300){
24             tax=(salary/100.0)*5;
25         }
26         else if (salary>=250){
27             tax=(salary/100.0)*3;
28         }
29         else {
30             tax=0;
31         }
32     }
33     printf("\nHi %s, based on your given information, the tax salary that you need to pay is: %.2f USD.",name,tax);
34 }
```



```
"D:\school\Year3\2. Algorithm & Programming S1\TP\18...
Input your gender(M/F) : F
Input your name : Dara
Input your salary($) : 280

Hi Dara, based on your given information, the tax salary
that you need to pay is: 8.40 USD.
Process returned 0 (0x0)   execution time : 10.082 s
Press any key to continue.
```