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pro01_1.c pro01_2.c pro02.c pro03.c pro04.c pro05.c pro06.c

```
1 #include<stdio.h>
2 int main(){
3
4     //Write a C program to swap two numbers. Using Third variable:
5
6     int a,b,c;
7     a = 10;
8     b = -6;
9     printf("Value of a before swap %d \n", a);
10    printf("Value of b before swap %d \n", b);
11
12    c = a;
13    a = b;
14    b = c;
15
16    printf("Value of a after swap %d \n", a);
17    printf("Value of b after swap %d \n", b);
18
19    return 0;
20 }
```

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```
1 #include<stdio.h>
2 int main(){
3
4     // Write a C program to swap two numbers. Without using third variable.
5
6     int a,b;
7     a = 10;
8     b = 6;
9     printf("Value of a before swap %d \n", a);
10    printf("Value of b before swap %d \n", b);
11
12    a = a+b;
13    b = a-b;
14    a = a-b;
15
16    printf("Value of a after swap %d \n", a);
17    printf("Value of b after swap %d \n", b);
18
19    return 0;
20 }
```



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```
1 #include<stdio.h>
2 int main(){
3     //Write a C program to check whether a number is even or odd using if-else statement.
4     int num;
5     printf("Enter a number :");
6     scanf("%d", &num);
7
8     if((num%2)==1)
9         printf("%d is an odd number", num);
10    else
11        printf("%d is an even number", num);
12
13    return 0;
14
15 }
```



Applications Places System

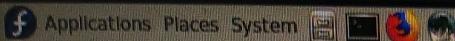


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```
1 #include<stdio.h>
2 int main(){
3
4     //Write a C program to check whether a year is a leap year or not.
5
6     int year;
7     printf("Enter the year : ");
8     scanf("%d", &year);
9
10    if ((year%4==0) && (year%100!=0) || (year%400==0)){
11        printf("%d is leap year \n", year);
12    }
13    else
14        printf("%d is not leap year \n", year);
15
16
17
18
19    return 0;
20 }
```



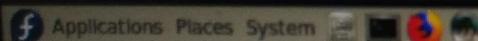
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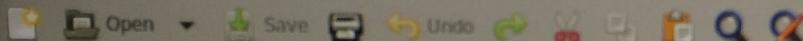
```
1 #include<stdio.h>
2 #include<math.h>
3
4 int main(){
5
6     //Write a C program to find all roots of a quadratic equation
7
8     int discriminant,a,b,c;
9     float root1, root2, real, imaginary;
10
11    printf("Enter a b c :");
12    scanf("%d %d %d", &a,&b,&c);
13
14    discriminant = ((b*b)-(4*a*c));
15
16    if (discriminant > 0){
17        root1 = (( -b + sqrt(discriminant)) / (2*a));
18        root2 = (( -b - sqrt(discriminant)) / (2*a));
19        printf("Roots are real and different Root 1 is %f Root 2 is %f \n", root1, root2);
20    }
21    else if (discriminant == 0){
22        root1 = -b / (2 * a);
23        printf("Roots are real and equal Root 1 and Root 2 is %f ", root1);
24    }
25
26    else{
27        real = -b / (2 * a);
28        imaginary = sqrt(discriminant) / (2 * a);
29        printf("Roots are complex %f + %fi ", real,imaginary );
30    }
31
32 }
33 return 0;
```





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pro01_l.c pro01_2.c pro02.c pro03.c pro04.c pro05.c pro06.c

```
1 #include<stdio.h>
2 int main(){
3     int basic;
4     float da,hra;
5
6     printf("Enter basis salary :");
7     scanf("%d", &basic);
8
9     da = (0.74*basic);
10    hra = (0.15*basic);
11
12
13    printf("Gross salary = %0.2f", basic + da + hra);
14
15    return 0;
16 }
```

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pro01_1.c pro01_2.c pro02.c pro03.c pro04.c pro05.c pro06.c

```
1 #include<stdio.h>
2 int main(){
3     // Write a C program to calculate and print electricity bill for consumer
4
5     int current, previous,total;
6     float bill;
7
8     printf("Enter current meter readings :");
9     scanf("%d", &current);
10
11    printf("Enter previous meter readings :");
12    scanf("%d", &previous);
13
14    total = current - previous ;
15
16    bill = 3.75*total;
17
18    printf("Bill is %0.2f \n", bill);
19
20    return 0;
21 }
```