

North South University
Department of Electrical and Computer Engineering
CSE 115L: Programming Language I Lab
Week 01 – Assignments

1. The distance between two cities (in km.) is input through the keyboard. Write a program to convert and print this distance in meters, feet, inches and centimeters.
2. Temperature of a city in Fahrenheit degrees is input through the keyboard. Write a program to convert this temperature into Centigrade degrees.
3. The length & breadth of a rectangle and radius of a circle are input through the keyboard. Write a program to calculate the area & perimeter of the rectangle, and the area & circumference of the circle.
4. Two numbers are input through the keyboard into two locations C and D. Write a program to interchange (swap) the contents of C and D.
5. If a number is input through the keyboard, write a program to calculate the sum of its digits.
6. If a number is input through the keyboard, write a program to reverse the number.
7. If a four-digit number is input through the keyboard, write a program to obtain the sum of the first and last digit of this number.
8. If the total selling price of 15 items and the total profit earned on them is input through the keyboard, write a program to find the cost price of one item.
9. Which of the following are valid & invalid variable names and why?
BASICSALARY _basic basic-hra
#MEAN group. 422
population in 2006 over time mindovermatter FLOAT hELLO queue.
team'svictory Plot # 3 2015_DDay

10. What would be the output of the following programs?

```
(a) main( )  
{  
    int  i = 2, j = 3, k, l;  
    float  a, b;  
    k = i / j * j;  
    l = j / i * i;  
    a = i / j * j;  
    b = j / i * i;  
    printf( "%d %d %f %f", k, l, a, b );  
}
```

(b) main()

```
{
    int a, b ;
    a = -3 -- 3 ;
    b = -3 -- ( -3 ) ;
    printf ( "a = %d b = %d", a, b ) ;
}
```

(c) main()

```
{
    float a = 5, b = 2 ;
    int c ;
    c = a % b ;
    printf ( "%d", c ) ;
}
```

(d) main()

```
{
    printf ( "nn \n\n nn\n" ) ;
    printf ( "nn /n/n nn/n" ) ;
}
```

(e) main()

```
{
    int a, b ;
    printf ( "Enter values of a and b" ) ; scanf ( " %d %d ", &a, &b ) ;
    printf ( "a = %d b = %d", a, b ) ;
}
```

(f) main()

```
{
    int p, q ;
    printf ( "Enter values of p and q" ) ;
    scanf ( " %d %d ", p, q ) ;
    printf ( "p = %d q = %d", p, q ) ;
}
```