Introduction to Programming (ETCS-108)
Assignment 6

Date:- 19/02/16

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Q. 1. Explain the functions `getche()` and `putch()` with the help of suitable example.

Q. 2. Write a program to swap two numbers without using third variable.

Q. 3. What is the difference between formatted console I/O functions and unformatted console I/O functions?

Q. 4. What is `putchar()` and `getchar()`?

Q. 5. Why is it necessary to use '&' sign before a variable name in scanf functions?

Q. 6. Interpret the meaning of the control string in each of the following scanf functions:

a. `scanf("%12ld %hd %15lf %15le",&a, &b, &c, &d);`

b. `scanf("%10lx %56hx %5hu %14lu",&a, &b, &c, &d);`

c. `scanf("%12D %hd %15f %15e",&a, &b, &c, &d);`

d. `scanf("%8d %8d %12lf",&a, &b, &c);`

Q. 7. Trace through the following segment of code for each new value of A, B, C and state the output in each case.

a. A = 16, B = 16, C = 32

b. A = 16, B = -18, C = 32

c. A = -2, B = -4, C = 16

```
if (A > 0)
{ if (B < 0) putchar('x');
    else if (C > 20) putchar('y'); }
else putchar('z');
```

Q. 8. Explain the usage of %c, %d and %f in C.

Q. 9. Write a program to accept length and breadth of a rectangle and find its area.

Q. 10. Write a program to accept two integers, two double values and display them. (Integers are to be left justified, double values are to be right justified and the no. of decimal digits after the point is 2.)

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