16.216: ECE Application Programming Fall 2012

Lecture 3: Key Questions September 10, 2012

1.	What are the four key characteristics of a variable?
2	What miles must be fellowed when naming weighted?
2.	What rules must be followed when naming variables?
3	Show how variables are declared and how values are assigned to them.
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4. **Example:** What values do w, x, y, and z have at the end of this program?

```
int main() {
    int w = 5;
    float x;
    double y;
    char z = 'a';
    x = 8.579;
    y = -0.2;
    w = x;
    y = y + 3;
    z = w - 5;
    return 0;
}
```

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5. Describe the use of printf() to print numeric values and characters.

}

6. **Example:** Show the output of each of the following short programs: a. #include <stdio.h> void main() int i=2, j=3, k, m; k = j * i;m = i + j;printf("%d %d %d %d\n", i, j, k, m); } b. #include <stdio.h> void main() { double f, g; f = 1.0 / 4.0;g = f * 20;printf("f = %lf, ng = %lf, f, g);} c. #include <stdio.h> void main() { int a = 5, b = 2; printf("Output%doesn't%dmake%dsense", a, b, a + b);