1. (a) No Side Effect

(b)Yes Side Effect is present since an integer value is being assigned to the variable x. Modifying the value of a non local variable is an example of a side effect.

(c) Side Effect is present. Performing input/output operations is an example of side effect. Since a string is getting printed, it is considered an output operation and hence side effect is present.

(d) Yes. Since function is printing a value instead of returning a value, side effect is present.