

# Optional Assignments

1. Given: int x = 5;
  - a. Print the result of:
    - i.  $++x$  (pre-increment)
    - ii.  $x++$  (post-increment)
    - iii.  $--x$  (pre-decrement)
    - iv.  $x--$  (post-decrement)
2. Given: int x = 10; Use assignment operators to perform and print:
  - a.  $x += 5$
  - b.  $x -= 3$
  - c.  $x *= 2$
  - d.  $x /= 4$
3. Take random value of variable x and Evaluate and print:
  - a.  $a \& b$
  - b.  $a | b$
  - c.  $a ^ b$
  - d.  $\sim a$

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4. Take random value of variable x and evaluate and print:
  - a.  $a \ll 1$  (left shift)
  - b.  $a \gg 1$  (right shift)
5. Try to evaluate output of below code and why:
  - c. If  $a = 10, b=20, c=30$  then
    - i.  $a=b+++++c;$
    - ii.  $result = a + (b * (c - b)) / b;$
    - iii.  $result = a + b * c - ++a / b \% c + (b - c) * a;$
6. Write a Java program to swap the values of two integer variables and display the values before and after the swap. Using a Temporary (Third) Variable