1. A computer manufacturing company has the following monthly compensation policy to their sales- persons:

   Minimum Base Salary: 1500.00
   Bonus for every computer sold: 200.00
   Commission on the total monthly sales: 2 % (Percent) on total sale price of computers.

   Since the prices of computers are changing, sales price of each computer if fixed at the beginning of every month. Write a Program to compute a sales-person's gross salary by accepting the below information:
   A. **No of computers sold**.
   B. **Price of computers sold**.

   After accepting above details, calculate and display the below things:

   A. **Bonus** (which is product of fixed bonus and total computers sold).
   B. **Commission.** (Which is product of fixed commission and total cost of all computers).
   C. **Gross Salary** (Total of Base Salary, Bonus and Commission).

2. Consider the quadratic equation below:
   ax^2 + bx +c =0;

   The values of x that satisfy the equation are known as the roots of the equation. A quadratic equation has two roots which are given by the following two formulae:

   Root 1 : $x = \dfrac{-b+\sqrt{b^2-4ac}}{2a}$

   Root 2 : $x = \dfrac{-b-\sqrt{b^2-4ac}}{2a}$

Write a program to evaluate these roots by accepting the value of a, b, and c from user and display the values for both roots.

3. Consider the below statements :

   Int a = 10, b = 20, c;

   Determine whether each of the following statements are true or false with explanation.
   A. The statement a =+ 10 is valid.
   B. The expression a+ 4/6 * 6/2 evaluates to 11.
   C. The expression b + 3/2 * 2/3 evaluates to 20.
   D. The statement a+= b; gives the value 30 to a and 20 to b.
   E. The statement ++a++; gives the value 12 to a.
   F. The statement a=1/b; assigns the value 0.5 to a.

4. Declared a as int and b as float, state whether the following statements are true or false:
   A. The statement a=1/3 +1/3 + 1/3; assigns the value 1 to a.
   B. The statement b= 1.0/3.0 + 1.0/3.0 + 1.0/3.0; assigns a value 1.0 to b.
   C. The statement b= 1.0/3.0 * 3.0 gives a value 1.0 to b.
   D. The statement b = 1.0/3.0 + 2.0/3.0 assigns a value 1.0 to b.
   E. The statement a=15/10.0 + 3/2; assigns a value 3 to a.

5. Which of the following expressions are true?
   A. !(5 + 5 >= 10)
   B. 5 + 5 == 10 || 1 + 3 == 5
   C. 5 > 10 || 10 < 20 && 3 < 5
   D. 10 != 15 && !(10 < 20) || 15 > 30

6. Which of the following arithmetic expressions are valid? If valid, give the value of the expression; otherwise give reason.
   A. 25/3 % 2
   B. +9/4 +5

C. 7.5 % 3

D. 14 % 3 + 7 % 2

E. -14 % 3

F. 15.25 + - 5.0

G. (5/3) * 3 + 5 % 3

H. 21 % (int)4.5

7. Write an program to evaluate the following equations :

   A. $Area = \pi r^2 + 2\pi rh$, Accept values of radius and height from user and calculate the Area by above formula.

   B. Torque = $\frac{2ab}{a+b} * c$, Accept the values of a, b, and c from user and calculate Torque.

   C. Side = $\sqrt{a^2 + b^2 - 2ab \cos(x)}$, Accept the values of a, b and x to calculate the side.

   D. Energy = $mass [acceleration \times height + \frac{velocity^2}{2}]$, Accept mass, acceleration, height and velocity from user and calculate the energy.

8. Find errors, if any, in the following assignment statements and rectify them.
   a. x = y = z = 0.5, 2.0, -5.75;
   b. m = ++a * 5;
   c. y = Math.Sqrt(100);
   d. p *= x/y;
   e. s =/ 5;
   f. a = b++ -c*2

9. Predict the output for the below code:
```
public static void Main()
        {
            char c = (char)100;
            int y = Convert.ToInt32(c == 100);
            Console.WriteLine(y);}
```