

be assigned to x .

b) Output?

$$k = 0$$

Because i, j and k were integer values and the answer was in decimal value with 0 as integer.

$$l = 2$$

Because l is int value. j/i is 1.5 but because the datatype is int it will be 1 and after it is multiplied with 2 the answer is 2.

$$a = 0$$

Because value of ' i, j ' is an integer and ' a ' is a float -

$$b = 2.0$$

Because ' b ' is float and ' i ' & ' j ' is int data type -

C, $m = 1$

Because $-3 \% 2 != 1$ is not equal to 3.

$n = 0.00$

In printf statement '%f' was written while datatype is 'int' of 'm'. The correct answer of 'n' is '-18'.

P 4)

Step 1: Take Input from user of a 4 digit integer.

Step 2: If digits are greater or less than 4, repeat step 1.

Step 3: If ~~digit~~ integer is 4 digit then, Take input of last ~~1~~ digit from user.

Step 4: Do the following calculations:
=> integer % 10

=> integer / 10

• If integer % 10 = last digit then, count ++.

Step 5: Repeat Step 4 until integer = 0.

Step 6: Print count.

Step 7: End.

P7) Step 1: Take Input from the user of $(x_1, y_1), (x_2, y_2), (x_3, y_3), (x_4, y_4)$.

Step 2: Find the slope of all four co-ordinates using formula: $m = \frac{y_2 - y_1}{x_2 - x_1}$.

Step 3: If any 3 ~~points~~ of the 4 points are same, then the points will be collinear.

Step 4: Print "All ^{Points} ~~lines~~ fall on the same line and are collinear".

Step 5: If lines are not collinear then "Points are not collinear".

Step 5: End.

P 9,

Step 1: Take Input from user of the last two digits of his/her roll number -

Step 2: If the integer is greater than 99 or less than 10 then repeat Step 1.

Step 3: Do the following calculations:

$\Rightarrow \text{integer \% } 2$

$\Rightarrow \text{integer} / 2$

• Repeat until quotient is 0.

Step 4: Print the Binary -

Step 5: Convert Binary to decimal using following calculation

• If Binary is 101

$\Rightarrow (1 \times 2^2) + (0 \times 2^1) + (1 \times 2^0)$

Step 6: Print Binary to Decimal conversion.

Step 7: End.

P1)

- a, Int
- b, long Int
- c, string
- d, float
- e, double
- f, unsigned.

P2)

- 1, 0.0000000
- 2, -9
- 3, 1.
- 4, a = 7, b = 7, c = 7.
- 5, y = 6, z = 6.

P5)

a, Out Put :

w = 1

x = 0

y = 1

z = 1

Explanation:-

Here i is assigned to w with "11"

so $i = 1$, $x = 0$ because of & operator. value of i & j & k cannot