DATA SCIENCE & ARTIFICIAL INTELLGENCE (BATCH -02) ASSIGNMENT NO # 02

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04613

Solve the following.

•
$$30 \div 5 \times 2 + 1$$

Solution:

$$= 30/5*2+1$$

$$= 6*2+1$$

•
$$5 + (4 - 2)^2 \times 3 \div 6 - 1$$

Solution:

$$= 5+(4-2)^2*3/6-1$$

$$= 5+(2)^2*3/6-1$$

$$= 5 + 2^2 \cdot 2 \cdot 3/6 - 1$$

$$= 5+4*3/6-1$$

= 6

•
$$3^2 + [6(11 + 1 - 4)] \div 8 \times 2$$

Solution:

$$= 3^2+[6^*(11+1-4)]/8^2$$

$$= 3^2+[6^*(12-4)]/8^2$$

$$= 3^2+[6^*(8)]/8^2$$

$$= 3^2+[6^*8]/8^*2$$

$$= 3^2+[48]/8^2$$

$$= 9+48/8*2$$

•
$$10 \div 2 + 12 \div 2 \times 3$$

Solution:

$$= 10/2 + 12/2*3$$

$$= 5 + 6*3$$

•
$$20 - [3 \times (2 + 4)]$$

Solution:

$$= 20 - [3*(2+4)]$$

$$= 20-[3*(6)]$$

$$= 20-[18]$$

•
$$150 \div (6 + 3 \times 8) - 5$$

Solution:

$$= 150/(6+3*8)-5$$

$$= 150/30-5$$

•
$$-\{2 y - [3 - (4 - 3 y)] + 6 y\}$$
 (Hint: $y = 3$)

Solution:

$$= -{2*3-[3-(4-3*3)]+6*3}$$

$$= -\{2*3-[3-(4-9)]+6*3\}$$

$$= -{2*3-[3-(-5)]+6*3}$$

$$= -{2*3-[3+5]+6*3}$$

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= -\{2*3-[8]+6*3\}
= -\{2*3-8+6*3\}
= -\{6-8+6*3\}
= -\{6-8+18\}
= -\{-2+18\}
= -\{16\}
= -16
• 14 z + 5 [6 - (2 z + 3)] (Hint z = 2)

Solution:
= 14*2+5*[6-(2*2+3)]
= 14*2+5*[6-(4+3)]
= 14*2+5*[6-(7)]
= 14*2+5*[6-7]
= 14*2+5*[-1]
= 14*2-5
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= **28**-5

= 23

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In [26]: print(30 / 5 * 2 + 1 )
          print(5 + (4 - 2)**2 * 3 / 6 - 1 )
          print(3**2 + (6 *(11 + 1-4)) / 8 * 2)
          print(10 / 2 + 12 / 2 * 3)
          print(20 - (3 * (2 + 4)))
print(150 / (6 + 3 * 8) - 5)
          y=3
          print(-(2*y-(3-(4-3*y))+6*y))
          z=2
          print(14*z+5*(6-(2*z+3)))
          13.0
          6.0
          21.0
          23.0
          0.0
          -16
          23
```