Python Daily Assignment 2

1. John has 6 apples and 7 bananas. How many fruits does John have?

In [1]:
```
apples=6
bananas=7
fruits=apples+bananas
print(fruits)
```

```
13
```

2. Emma read 15 pages yesterday and 10 pages today. Did she read more than 20 pages in total?

In [2]:
```
yesterday=15
today=10
total=yesterday+today
print(20<total)
```

```
True
```

3. A bag contains 12 red balls and 8 blue balls. Is the number of red balls greater than blue balls?

In [3]:
```
red_balls=12
blue_balls=8
print(red_balls>blue_balls)
```

```
True
```

4. Mike had 30 candies and gave 12 to his friend. How many does he have now?

In [4]:
```
total_candies=30
given_to_friend=12
balance=total_candies-given_to_friend
print(balance)
```

```
18
```

5. Sarah bought 5 pens at $3 each. How much did she spend?

In [6]:
```
no_of_pens=5
cost_of_one_pen=3
print('spent = $',no_of_pens*cost_of_one_pen,sep='')
```

```
spent = $15
```

6. There are 45 cookies equally divided among 5 kids. How many does each get?

In [8]:
```
total_cookies=45
total_kids=5
distribution_among_kids=total_cookies//total_kids
print(distribution_among_kids)
```

```
9
```

7. Tom scored 89 in math and 76 in science. Did he score more than 160 in total?

In [9]:
```
math_score=89
science_score=76
total=math_score+science_score
print(160<total)
```

```
True
```

8. A store sells apples at $2.50 each. If you buy 4, is the total cost more than $10?

In [90]:
```
apples_cost=2.50
buyed_apples=4
total=apples_cost*buyed_apples
print(total>10)
```

```
False
```

9. Alice has $100 and buys 3 books for $25 each. Will she have any money left?

In [91]:
```
total_money=100
books=3
cost_of_one_book=25
balance=total_money-books*cost_of_one_book
print(balance)
```

```
25
```

10. A rectangle has length 10 and width 4. Is its area greater than its perimeter?

In [92]:
```
length=10
width=4
area_of_rectangle=length*width
perimeter_of_rectangle=2*(length+width)
print(area_of_rectangle>perimeter_of_rectangle)
```

```
True
```

11. Two friends have 45 and 55 marbles respectively. Do they have equal number of marbles?

In [93]:
```
friend_a=45
friend_b=55
```

```
print(friend_a==friend_b)
```

```
False
```

12. A car travels 60 km in 1 hour and a bike 40 km in the same time. Is the car faster?

In [94]:
```
car_speed=60
bike_speed=40
print(car_speed>bike_speed)
```

```
True
```

13. A chocolate costs `$2`. You have `$9`. Can you buy 5 chocolates?

In [95]:
```
cost_of_one_chocolate=2
total_money=9
buy_chocolates=9//2
print(5==buy_chocolates)
```

```
False
```

14. A container holds 100 liters of water. If 30 liters are used, is more than half remaining?

In [96]:
```
total_water_in_container=100
used_water=30
balance_water=total_water_in_container-used_water
half_water=total_water_in_container//2
print(balance_water>half_water)
```

```
True
```

15. Two numbers are 13 and 17. Is their sum an even number?

In [97]:
```
n1=13
n2=17
sums=n1+n2
print(sums%2==0)
```

```
True
```

16. Peter has 5 books, each weighing 1.2 kg. Is the total weight more than 6 kg?

In [98]:
```
peter_books=5
weight_of_each_book=1.2
total_weight=peter_books*weight_of_each_book
print(total_weight>6)
```

```
False
```

17. A triangle has sides 3, 4, and 5. Is it a right-angled triangle?

In [101…
```
s1=3
s2=4
h=5
print(h**2==(s1**2+s2**2))
```

```
True
```

18. Jenny had $50, bought items worth $35. Does she have less than $20 left?

In [102…
```
jenny_money=50
items_worth=35
money_left=jenny_money-items_worth
print(money_left<20)
```

```
True
```

19. A worker earns $80 per day. Is earning from 6 days more than $500?

In [103…
```
earning_per_day=80
no_of_days_work=6
earned_money=earning_per_day*no_of_days_work
print(earned_money>500)
```

```
False
```

20. A movie ticket costs $12. Can you buy 4 with $50?

In [104…
```
cost=12
having_money=50
print(4==having_money//cost)
```

```
True
```

21. If a bottle contains 750ml, do 4 bottles hold more than 3 liters?

In [105…
```
bottleml=750
no_of_bottles=4
print(bottleml*no_of_bottles>3000)
```

```
False
```

22. Is the difference between 100 and 37 greater than 60?

In [106…
```
print(100-37>60)
```

```
True
```

23. Does dividing 81 by 9 result in a number greater than 8?

In [107…
```
print(81/9>8)
```

```
True
```

24. Are 5 multiplied by 6 and 30 equal?

In [108…
```
print(5*6==30)
```

```
True
```

25. Do two squares of side 4 and 5 have the same area?

In [109…
```
s1=4
s2=5
a1=s1**2
a2=s2**2
print(a1==a2)
```

```
False
```

26. A basket holds 18 apples. If you eat 6, do you have fewer than 15 left?

In [110…
```
no_of_apples=18
eaten=6
print(no_of_apples-eaten<15)
```

```
True
```

27. Sam travels 120 km in 2 hours. Is his speed 60 km/hr?

In [111…
```
d=120
t=2
s=d/t
print(s==60)
```

```
True
```

28. Is 7 + 3 * 2 equal to 20?

In [112…
```
print(7+3*2==20)
```

```
False
```

29. Jane bought 2 pens and 3 pencils. If a pen is `$` 2 and pencil `$` 1, did she spend $9?

In [113…
```
no_of_pens=2
no_of_pencils=3
cost_of_one_pen=2
cost_of_one_pencil=1
total_money=no_of_pens*cost_of_one_pen+no_of_pencils+cost_of_one_pencil
print(total_money==9)
```

```
False
```

30. You have 3 boxes, each holding 12 balls. Are total balls more than 35?

In [114…
```
no_of_boxes=3
balls_in_each_box=12
total_balls=no_of_boxes*balls_in_each_box
print(total_balls>35)
```

```
True
```

31. A triangle has angles 60, 60, and 60. Do they sum to 180?

In [115…
```
a1,a2,a3=60,60,60
print(a1+a2+a3==180)
```

```
True
```

32. If you split 100 into two equal parts, is one part greater than 60?

In [116…
```
print(100/2>60)
```

```
False
```

33. Mike earned `$` 400 in 8 days. Did he earn `$` 50 daily?

In [117…
```
print(400/8==50)
```

```
True
```

34. Does subtracting 20 from 50 give 30?

In [118…
```
print(50-20==30)
```

```
True
```

35. Are 10 + 15 and 5 * 5 equal?

In [119…
```
print(10+15==5*5)
```

```
True
```

36. If a packet has 48 candies, can 6 kids get more than 7 each?

In [120…
```
candies_in_one_packet=48
no_of_kids=6
print(48/6>7)
```

```
True
```

37. Compare 5 ** 2 and 25. Are they the same?

In [121…
```
print(5**2==25)
```

```
True
```

38. Is (10 + 2) * 3 greater than 35?

In [122…
```
print((10+2)*3>35)
```
```
True
```

39. Do 8 and 8.0 compare equal?

In [123…
```
print(8==8.0)
```
```
True
```

40. A rope is cut into 3 pieces of 10, 15, and 25 meters. Is the total 50?

In [124…
```
print(10+15+25==50)
```
```
True
```

41. Multiply 4 by 4. Is the result less than 20?

In [125…
```
print(4*4<20)
```
```
True
```

42. Add 13 and 7. Is the result divisible by 5?

In [48]:
```
print((13+7)%5==0)
```
```
True
```

43. 20 apples are equally shared between 5 students. Does each get 4?

In [49]:
```
no_of_apples=20
students=5
each_students_apples=no_of_apples/5
print(each_students_apples==4)
```
```
True
```

44. Subtract 15 from 60. Is the result equal to 45?

In [50]:
```
print(60-15==45)
```
```
True
```

45. Compare 3 * 3 + 1 and 10. Are they equal?

In [51]:
```
print(3*3+1==10)
```
```
True
```

46. If you double 12, is the result more than 25?

In [52]:
```
print(12*2>25)
```
```
False
```

47. Are 100 divided by 4 and 25 equal?

In [53]:
```
print(100/4==25)
```

```
True
```

48. Is (9 - 3) * 2 greater than 10?

In [54]:
```
print((9-3)*2>10)
```

```
True
```

49. If you have $99 and spend $33 three times, will anything be left?

In [57]:
```
money_have=99
money_spent=33*3
money_left=money_have-money_spent
print('money left = ',money_left)
```

```
money left =  0
```

50. Add 5.5 and 4.5. Is the result 10?

In [58]:
```
print(5.5+4.5==10)
```

```
True
```

51.A baker made 24 cupcakes and packed them into boxes of 6. How many boxes did he fill?

In [59]:
```
cupcakes=24
boxes=6
no_of_boxes=cupcakes/boxes
print(no_of_boxes)
```

```
4.0
```

52.Lily had 50 coins. After donating 15, how many coins does she have left?

In [60]:
```
coins_have=50
donated_coins=15
coins_left=coins_have-donated_coins
print(coins_left)
```

```
35
```

53.A magician pulls 3 rabbits from each of his 4 hats. How many rabbits appear in total?

In [61]:
```
# 53.A magician pulls 3 rabbits from each of his 4 hats. How many rabbits appear in
hats=4
rabbits_for_each_hat=3
print(hats*rabbits_for_each_hat)
```

```
12
```

54.A car travels 180 km in 3 hours. What is its average speed?

In [62]:
```
d=180
t=3
s=d/t
print(s)
```

```
60.0
```

55.A student scored 78 in English and 91 in History. Did they score higher in History?

In [63]:
```
english=78
history=91
print(history>english)
```

```
True
```

56.You earn `$` 15 an hour and worked 8 hours. Did you earn at least `$` 120?

In [64]:
```
earningperhour=15
workinghours=8
total=earningperhour*workinghours
print(total==120)
```

```
True
```

57.A library has 12 fiction and 9 non-fiction books. Is the total book count more than 20?

In [65]:
```
fiction=12
nonfiction=9
total=fiction+nonfiction
print(total>20)
```

```
True
```

58.A zoo has 7 lions and 7 tigers. Do they have an equal number of both animals?

In [66]:
```
lions=7
tigers=7
print(lions==tigers)
```

```
True
```

59.Two siblings share 18 candies equally. How many does each get?

In [67]:
```
equal_candies_for_two_people=18/2
print(equal_candies_for_two_people)
```

```
9.0
```

60.A bottle holds 500ml. You drank 125ml twice. Is more than half still left?

In [68]:
```
bottle_capacity=500
half_bottle_capacity=bottle_capacity/2
print(125*2>half_bottle_capacity)
```

```
False
```

61.The sum of your ages and your dog's age is 30. If you are 25, how old is your dog?

In [69]:
```
sum_of_ages=30
my_age=25
dogs_age=sum_of_ages-my_age
print(dogs_age)
```

```
5
```

62.Two friends both have 100 points in a game. Do they have identical scores?

In [70]:
```
f1=100
f2=100
print(f1==f2)
```

```
True
```

63.A farmer harvested 120 apples and stored them in crates of 10. How many crates did he use?

In [71]:
```
apples=120
no_of_apples_stored_in_one_crate=10
crates=apples/no_of_apples_stored_in_one_crate
print(crates)
```

```
12.0
```

64.Multiply 7 by 3 and compare if the result is greater than 20.

In [72]:
```
print(7*3>20)
```

```
True
```

65.If you walk 3 km and run 2 km, is your total distance equal to 5 km?

In [73]:
```
walk=3
run=2
distance=walk+run
print(distance==5)
```

```
True
```

66.Is it true that 5 is greater than 2 and also less than 10?

In [74]:
```
print(5>2 and 5<10)
```

```
True
```

67.Is either 7 less than 4 or 9 equal to 9?

In [75]:
```
print(7<4 or 9==9)
```

```
True
```

68.Create two strings: x = "hello", y = "hello". Are they the same object in memory?

In [76]:
```
x='hello'
y='hello'
print(x is y)
```

```
True
```

69.You added 20 points to your score of 60. What's your new score?

In [77]:
```
my_score=60
added_score=20
total_score=my_score+added_score
print(total_score)
```

```
80
```

70.If x = 100 and x -= 40, what is the value of x now?

In [78]:
```
x=100
x-=40
print(x)
```

```
60
```

71.Start with y = 10, then double it using the assignment operator. What's y?

In [79]:
```
y=10
y*=2
print(y)
```

```
20
```

72.Divide 80 by 4 using the /= operator. What's the result?

In [81]:
```
x=80
x/=4
print(x)
```

```
20.0
```

73.Check if 9 is not equal to 8 using a comparison operator.

In [82]:
```
print(9!=8)
```

```
True
```

74.You have x = None. Is x identical to None?

In [83]:
```
x=None
print(x is None)
```

```
True
```

75.Are 3.0 and 3 considered the same object using the identity operator?

In [84]:
```
print(3.0==3)
```

```
True
```

76.A puzzle has 9 parts. If 3 are missing, how many remain?

In [85]:
```
total_parts=9
missing_parts=3
remaining_parts=total_parts-missing_parts
print(remaining_parts)
```

```
6
```

77.If x = 10 and y = 5, is x + y equal to x * y?

In [86]:
```
x=10
y=5
print(x+y==x*y)
```

```
False
```

78.If you study 2 hours daily for 7 days, how many total hours is that?

In [87]:
```
study_hours=2
days=7
total_hours=study_hours*days
print(total_hours)
```

```
14
```

79.You received 100 messages, deleted 25. Are you left with more than 70?

In [88]:
```
received_messages=100
deleted_messages=25
available_messages=received_messages-deleted_messages
print(available_messages>70)
```

```
True
```

80.You multiply your savings by 2 every year. If you start with 300, what do you have after doubling once?

In [89]:
```
savings=300
savings*=2
print(savings)
```

```
600
```