In [1]:
```
5+2
```

Out[1]: 7

In [2]:
```
5*6
```

Out[2]: 30

In [3]:
```
6-3
```

Out[3]: 3

In [5]:
```
9/3  #Division
```

Out[5]: 3.0

In [6]:
```
2**6   #Exponent
```

Out[6]: 64

In [7]:
```
print("hello")
```

```
hello
```

In [8]:
```
print("Deepak kumar")
```

```
Deepak kumar
```

In [10]:
```
9%3    #modulus operator
```

Out[10]: 0

In [11]:
```
even_number=6
```

In [12]:
```
even_number
```

Out[12]: 6

In [13]:
```
odd_number=3
```

In [14]:
```
odd_number
```

Out[14]: 3

In [15]:
```
x = 4
y = 6
```

In [16]:
```
x+y
```

Out[16]:
```
10
```

In [17]:
```
z = x+y
```

In [18]:
```
z
```

Out[18]:
```
10
```

In [19]:
```
'single quotes'
```

Out[19]:
```
'single quotes'
```

In [20]:
```
"double qoutes"
```

Out[20]:
```
'double qoutes'
```

In [22]:
```
"wrap lot's of other quotes"
```

Out[22]:
```
"wrap lot's of other quotes"
```

In [24]:
```
x='hello'
```

In [25]:
```
x
```

Out[25]:
```
'hello'
```

In [26]:
```
print(x)
```

```
hello
```

In [27]:
```
type(x)
```

Out[27]:
```
str
```

In [29]:
```
num=210101120083
name="Deepak kumar"
print("my name=",name,"and my registration number=",num)
```

```
my name= Deepak kumar and my registration number= 210101120083
```

In [31]:
```
100//9
```

Out[31]:
```
11
```

In [34]:
```
90.0//6.3
```

Out[34]:
```
14.0
```

In [35]:
```
100%7
```

Out[35]: 2

In [36]:
```
99%6
```

Out[36]: 3

In [37]:
```
6**3
```

Out[37]: 216

In [38]:
```
((4+5)*(40-30))/5
```

Out[38]: 18.0

In [39]:
```
((3*6)+(6*5))/(6*3)
```

Out[39]: 2.6666666666666665

In [40]:
```
11%8
```

Out[40]: 3

In [41]:
```
total_population=198658
print("total population=",total_population)
men_population=45312
print('men population=',men_population)
women_population=35678
print("women population=",women_population)
child_popolation=total_population-(men_population+women_population)
print("child population=",child_popolation)
```

```
total population= 198658
men population= 45312
women population= 35678
child population= 117668
```

In [49]:
```
cost_of_1_radio_set=1475
print("cost of 1 radio set= $"+str(cost_of_1_radio_set))
total_no_of_radio_set=35
print("total no of radio set= $"+str(total_no_of_radio_set))
cost_of_total_radio_set=cost_of_1_radio_set*total_no_of_radio_set
print("cost of total radio set= $"+str(cost_of_total_radio_set))
```

```
cost of 1 radio set= $1475
total no of radio set= $35
cost of total radio set= $51625
```

In [50]:
```
people_voted_for_ron=52946
print("people voted for ron=",people_voted_for_ron)
people_voted_for_john=44929
print('people voted for john=',people_voted_for_john)
people_voted_for_mike=36824
print("people voted for mike=",people_voted_for_mike)
total_no_of_voters=people_voted_for_john+people_voted_for_mike+people_voted_for_r
print("total no of voters=",total_no_of_voters)
```

```
people voted for ron= 52946
people voted for john= 44929
people voted for mike= 36824
total no of voters= 134699
```

In [51]:
```
total_no_of_toy=96
price_of_96_toy=12960
print("price of 96 toy=",price_of_96_toy)
price_of_each_toy=price_of_96_toy/total_no_of_toy
print("price of each toy=",price_of_each_toy)
left_amount_of_maria=1015
total_amount_maria_had=price_of_96_toy+left_amount_of_maria
print("total amount maria had=",total_amount_maria_had)
```

```
price of 96 toy= 12960
price of each toy= 135.0
total amount maria had= 13975
```

In [61]:
```
type(total_no_of_toy)
```

Out[61]:
```
int
```

In [62]:
```
type(price_of_each_toy)
```

Out[62]:
```
float
```

In [63]:
```
type(price_of_96_toy)
```

Out[63]:
```
int
```

In [66]:
```
monthly_production_of_bulb=24532
print("monthly production of bulb=",monthly_production_of_bulb)
one_year=12
print("one year production of bulb=",one_year)
annual_production=monthly_production_of_bulb*one_year
print("annual production of bulb=",monthly_production_of_bulb*one_year)
```

```
monthly production of bulb= 24532
one year production of bulb= 12
annual production of bulb= 294384
```

In [65]:
```
bags_of_sugar=145968
print("bags of sugar=",bags_of_sugar)
bags_of_wheat=236487
print("bags of wheat=",bags_of_wheat)
total_bags=450000
print("total bags=",total_bags)
bags_of_rice=total_bags-(bags_of_sugar+bags_of_wheat)
print("bags of rice=",total_bags-(bags_of_sugar+bags_of_wheat))
```

```
bags of sugar= 145968
bags of wheat= 236487
total bags= 450000
bags of rice= 67545
```

In [67]:
```
total_money_given_to_shopkeeper=5000
print("total money given to shopkeeper=",total_money_given_to_shopkeeper)
coast_of_coat=2265
print("coast of coat=",coast_of_coat)
coast_of_saree=2150
print("coast of saree=",coast_of_saree)
money_return_by_shopkeeper=total_money_given_to_shopkeeper-(coast_of_coat+coast_
print("money return by shopkeeper=",money_return_by_shopkeeper)
```

```
total money given to shopkeeper= 5000
coast of coat= 2265
coast of saree= 2150
money return by shopkeeper= 585
```

In [68]:
```
x = input("input a no:")
print("value of x=",x)
```

```
input a no:9
value of x= 9
```

In [69]:
```
x = input("input a no:")
print("value of x=",x)
```

```
input a no:76
value of x= 76
```

In [71]:
```
type(x)
```

Out[71]:
```
str
```

In [73]:
```
x = input("input a no:")
print("value of x before addition is=",x)
#x = int(x)+10
x = int(x)+10
print("value of x after addition=",x)
```

```
input a no:77
value of x before addition is= 77
value of x after addition= 87
```

In [74]:
```
x = input("input a no:")
print("value of x before addition",x)
#x = int(x)+12
x = int(x)+12
print("value of x after addition",x)
```

```
input a no:7
value of x before addition 7
value of x after addition 19
```

In [77]:
```
x = input("input a no:")
print("value of x before multiplication",x)
#x = int(x)*12
x = int(x)*12
print("value of x after multiplication",x)
```

```
input a no:3
value of x before multiplication 3
value of x after multiplication 36
```

In [80]:
```
x = input("input a no:")
print("value of x before squaring",x)
#x = int(x)**2
x = int(x)**2
print("value of x after squaring",x)
```

```
input a no:5
value of x before squaring 5
value of x after squaring 25
```

In [79]:
```
x = input("input a no:")
print("value of x before cube",x)
#x = int(x)**3
x = int(x)**3
print("value of x after cube",x)
```

```
input a no:3
value of x before cube 3
value of x after cube 27
```

In [81]:
```
my_favorite_number=1
my_least_favorite_number=5
a_neutral_number=3
```

In [83]:
```
#Equality check
my_favorite_number==1
```

Out[83]:
```
True
```

In [84]:
```
#Equality check
my_favorite_number==my_least_favorite_number
```

Out[84]: False

In [85]:
```
my_favorite_number==a_neutral_number
```

Out[85]: False

In [86]:
```
my_favorite_number!=a_neutral_number
```

Out[86]: True

In [87]:
```
my_favorite_number==a_neutral_number
```

Out[87]: False

In [88]:
```
my_favorite_number>=my_least_favorite_number
```

Out[88]: False

In [89]:
```
my_favorite_number<=my_least_favorite_number
```

Out[89]: True

In [90]:
```
my_favorite_number>my_least_favorite_number
```

Out[90]: False

In [91]:
```
my_favorite_number<my_least_favorite_number
```

Out[91]: True

In [92]:
```
3+6<=9
```

Out[92]: True

In [93]:
```
my_favorite_number+a_neutral_number<=3
```

Out[93]: False

In [94]:
```
3+6!=9
```

Out[94]: False

In [95]:
```
a=10
b=20
sum=a+b
print("sum is ",sum)
```

```
sum is  30
```

In [96]:
```
cost_of_ice_bag=1.25
is_ice_bag_expensive=cost_of_ice_bag>=10
print("is the ice bag expensive?",is_ice_bag_expensive)
```

```
is the ice bag expensive? False
```

In [99]:
```
my_favorite_number>0 and my_favorite_number<=3
```

Out[99]:
```
True
```

In [100]:
```
a_neutral_number!=3 or my_favorite_number<0
```

Out[100]:
```
False
```

In [101]:
```
my_favorite_number<0 or True
```

Out[101]:
```
True
```

In [102]:
```
my_favorite_number>0 or False
```

Out[102]:
```
True
```

In [104]:
```
not False
```

Out[104]:
```
True
```

In [105]:
```
not a_neutral_number==3
```

Out[105]:
```
False
```

In [106]:
```
not my_favorite_number<0
```

Out[106]:
```
True
```

In [107]:
```
(2>3 and 4<=5) or not (my_favorite_number<0 and True)
```

Out[107]:
```
True
```

In [108]:
```
not(True and 0<1) or (False and True)
```

Out[108]:
```
False
```

In [ ]:
```

```