

21053250

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```
[1]: print("hello world")
```

hello world

```
[41]: n = input("Enter name: ")
      a = int(input("Enter age: "))
      print("name:", n)
      print("age:", a, "years old")
```

Enter name: Adarsh

Enter age: 21

name: Adarsh

age: 21 years old

```
[29]: # Constants
      PI = 3.14
      print(PI)
      # single-line comment
```

3.14

```
[30]: a=10
      b=3
      c=float(a/b)
      print(c)
```

3.3333333333333335

```
[39]: a = 15
      b = 7

      add = a + b
      sub = a - b
      mul = a * b
      div = a / b

      print("Addition:", add)
      print("Subtraction:", sub)
      print("Multiplication:", mul)
      print("Division:", div)
```

Addition: 22  
Subtraction: 8  
Multiplication: 105  
Division: 2.142857142857143

```
[9]: a="Adarsh Mishra"
a=a.lower()
print(a)
a=a.upper()
print(a)
print(a.lower().isupper())
b=len(a)
print(b)
c=a[0]
print(c)
d=a.index("M")
print(d)
d=a.index("MISHRA")
print(d)
d=a.index("SHR")
print(d)
a=a.replace("MISHRA","Mishra")
print(a)
```

adarsh mishra  
ADARSH MISHRA  
False  
13  
A  
7  
7  
9  
ADARSH Mishra

```
[38]: x = False
y =False
a= x and y
y=True
o = x or y
n = not x
print("AND Result:", a)
print("OR Result:", o)
print("NOT Result:", n)
```

AND Result: False  
OR Result: True  
NOT Result: True

```
[15]: name=["abc",2.05,False,"xyz","pqr","lmn"]
print(name[0])
print(name)
print(name[-1])
print(name[-2])
print(name[1:])
print(name[1:3])
name[0]=1234
print(name)
print("\n\n\n\nlist functions: ")
a=[2,4,1,3,7,6]
a.sort()#sorting
print(a)
a.reverse()#reverse
print(a)
```

```
abc
['abc', 2.05, False, 'xyz', 'pqr', 'lmn']
lmn
pqr
[2.05, False, 'xyz', 'pqr', 'lmn']
[2.05, False]
[1234, 2.05, False, 'xyz', 'pqr', 'lmn']
```

```
list functions:
[1, 2, 3, 4, 6, 7]
[7, 6, 4, 3, 2, 1]
```

```
[35]: a = True
if a:
    print("zxcvbnm")
if 2 > 9:
    print("???)
else:
    print("....")
b = False
if a or b:
    print("abcde")
elif a:
    print("/////")
else:
    print("bnm,")
if a and b:
    print("xyz")
def max_num(x, y, z):
```

```

    if x >= y and x >= z:
        return x
    elif y >= x and y >= z:
        return y
    else:
        return z
c = max_num(7, 9, 100)
print(c)

```

zxcvbnm

...

abcde

100

```

[33]: a = int(input("Enter a number: "))
      for i in range(1,a):

          print("remainder", a%i)

      c = int(input("Enter a number: "))
      while c < a:
          if(c%2==0):
              print(c)
          c+=1

```

Enter a number: 10

remainder 0

remainder 0

remainder 1

remainder 2

remainder 0

remainder 4

remainder 3

remainder 2

remainder 1

Enter a number: 1

2

4

6

8