

In []:

```
#wapp accept two numbers and calculatew mul and div
```

In [14]:

```
def cal(x,y):  
    print("multiplication:",x*y,"\n division:",x/y)
```

In [15]:

```
cal(5,5)
```

```
multiplication: 25  
division: 1.0
```

In []:

```
#wapp print the characters from a string that are present at an even index
```

In [38]:

```
str1=input()  
str2=""  
for i in range(0,len(str1)):  
    if i%2==0:  
        str2+=str1[i]  
print(str2)
```

```
hello there  
hlo tee
```

In []:

```
#wapp which print char in odd index
```

In [39]:

```
str3="hello there"  
str4=[]  
for a in range(len(str3)):  
    if a%2!=0:  
        str4.append(str1[a])  
print(str4)
```

```
['e', 'l', ' ', 'h', 'r']
```

In []:

```
#wapp which prints sum of two number if both even else prints the difference
```

In [53]:

```
a=int(input("1st num-"))
b=int(input("2nd num-"))
if a and b %2==0:
    x=lambda a,b:a+b
    print("sum is-",x(a,b))
else:
    x=lambda a,b:a-b
    print("difference is-",x(a,b))
```

1st num-10
2nd num-15
difference is- -5

In []:

```
#wapp to convert even indexed to upper case and odd indexed to lower case
```

In [49]:

```
y="programming"
z=" "
for a in range(len(y)):
    if a%2==0:
        z=z+y[a].upper()
    else:
        z=z+y[a].lower()
print(z)
```

PrOgRaMmInG

In []:

```
#wapp to find if number is divisible by 5 or else return false
```

In [56]:

```
def find5(num):
    return True if num % 5 == 0 else False
```

In [57]:

```
find5(25)
```

Out[57]:

True

In [58]:

```
find5(21)
```

Out[58]:

False

In []:

```
#Given two numbers,return their product if greater than 1000 else return their sum
```

In [63]:

```
num1=int(input("1st num:"))
num2=int(input("2nd num:"))
def cal(num1,num2):
    if num1*num2 > 1000:
        return "{}x{}={}".format(num1,num2,num1*num2)
    else:
        return "{}+{}={}".format(num1,num2,num1+num2)
cal(num1,num2)
```

1st num:200

2nd num:250

Out[63]:

'200x250=50000'

In []:

```
#Given two strings x,y write a prog to return a new string made of 1st,middle and last char  
#of both the strings
```

In [66]:

```
x=input("enter-")
y=input("enter-")
x[0]+y[0]+x[len(x)//2]+y[len(y)//2]+x[-1]+y[-1]
```

enter-pytho

enter-javas

Out[66]:

'pjtvos'

In [71]:

Enter three names : mnb lkj poi

name0:- mnb

name4:- lkj

name8:- poi

In []:

```
# wapp to take three names as input from a user in the single input () function call
# Example:
# Input:
# Enter three names: - "person1 person2 person3"
# Output:
# Name1: - "person1"
# Name2: - "person2"
# Name3: - "person3"
```

In [73]:

```
x=input("enter 3 names-")
y=x.split()
print("name1: {}".format(y[0]))
print("name2: {}".format(y[1]))
print("name3: {}".format(y[2]))
```

```
enter 3 names-poi lkj mnb
name1: poi
name2: lkj
name3: mnb
```

In []:

```
# wapp to get a string from a given string where all occurrences of its first char have bee
# changed to '@', except the first char itself.
```

In [75]:

```
s = input("Type-")
t = s[0]
for i in s:
    s = s.replace(s[0], '@')
    s = t + s[1:]
print(s)
```

```
Type-abacas
ab@c@s
```

In []:

```
'ly' instead. If the string length of the given string is less than 3, leave it unchanged
```

In [83]:

```
def str():
    strr = input("Type the word_")
    if len(strr)<3:
        return strr
    else:
        if strr[-3:] == "ing":
            return strr+"ly"
        return strr+"ing"
str()
```

```
Type the word_loading
```

Out[83]:

```
'loadingly'
```

In [88]:

```
def str():  
    strr = input("Type the word_")  
    if len(strr)<3:  
        return strr  
    else:  
        if strr[-3:] == "ing":  
            return strr+"ly"  
        return strr+"ing"  
str()
```

Type the word_load

Out[88]:

'loading'

In []:

```
#wapp that accepts two inputs num1 and num2 print True if one of them is 10 or if their sum
```

In [98]:

```
def cal(x,y):  
    if x==10 or y==10 or (x+y)==10:  
        return True  
    return False
```

In [99]:

cal(5,5)

Out[99]:

True

In [100]:

cal(10,5)

Out[100]:

True

In [101]:

cal(7.5,7.5)

Out[101]:

False

In []:

```
#wapp that accepts three inputs x, y and z print True if x*y>z otherwise False
```

In [114]:

```
x = int(input("Enter x value: "))
y = int(input("Enter y value: "))
z = int(input("Enter z value: "))
(bool(x*y > z))
```

Enter x value: 5
Enter y value: 5
Enter z value: 30

Out[114]:

False

In []:

total number of characters in the first string is equal to the total number of characters in t



In [116]:

```
s1 = input("1st string_")
s2 = input("1st string_")
bool(len(s1)==len(s2))
```

1st string : rgb
1st string : bmi

Out[116]:

True

In [117]:

```
s1 = input("1st string_")
s2 = input("1st string_")
bool(len(s1)==len(s2))
```

1st string_abcd
1st string_xyz

Out[117]:

False

In []:

s, the front is whatever is there. Return a new string, which is three copies of the front



In [121]:

```
a=input("enter_")
if len(a)<3:
    print(a)
elif len(a)>=3:
    print(a[:3]*3)
```

enter a string :lkjh
lkjlkjlkj

In []:

#wapp that takes in a word and determines whether or not it is plural. A plural word is one

In [127]:

```
def plural():
    word=input()
    if word.endswith("s"):
        return word,"is a plural word"
    else:
        return word,"not a plural word"
plural()
```

goldman sachs

Out[127]:

('goldman sachs', 'is a plural word')

In []:

#A bartender is writing a simple program to determine whether he should serve drinks to som

In [141]:

```
age = int(input("what is ur age : "))
break_time = input("entet Y if not in break : ")
if age > 18 and break_time == "Y":
    print("I can serve")
else:
    print("sorry I can't")
```

what is ur age : 20
entet Y if not in break : Y
I can serve

In []:

#Manoj Kumar has family and friends. Help him remind them who is who. Given a string with a #Person Relation

In [150]:

```
d=input()
dic={"father":"shiva","mother":"letha","brother":"tarun","sister":"kavitha"}

value = {i for i in dic if dic[i]==d}
print("he is your",value)
```

```
shiva
he is your {'father'}
```

In []:

second. For any character that's not a vowel (like special characters or spaces), treat them

In [154]:

```
w=input()
x=w.lower()
y=""
z=""
v=""
for s in x:
    if s in ["a","e","i","o","u"]:
        y+=s
    elif s.isalpha():
        z+=s
    else:
        v+=s
print(y+z+v)
```

```
a@de%g
aedg@%
```

In []:

```
#Create a dynamic calculator which asks for numbers and operator and return the answers
#Example
#Input:
#Type first number: 10
#Type any of this (+, -, *, /, %, **): *
#Kavitha sister
#Strange Coder
#Assignment-2
#Type second number: 19
#Output:
#nswer is 190
```


In [155]:

```
a=int(input("enter first value :"))
b=int(input("enter second value :"))
c=input("type any of this [+ , - , * , / , % , **]")
if c=="+":
    print("The addition of two numbers is :",a+b)
elif c=="-":
    print("the subtraction of two numbers is :",a-b)
elif c=="*":
    print("the product of two numbers is :",a*b)
elif c=="%":
    print("the floor division of two numbers is",a%b)
elif c=="/":
    print("the floor division of twi numbers is ",a/b)
elif c=="**":
    print("the power of two numbers is",a**b)
```

```
enter first value :7
enter second value :7
type any of this [+ , - , * , / , % , **]*
the product of two numbers is : 49
```

In []: