In [19]:
```
#1) Write a program to accept two numbers from the user and calculate multiplication, division.
v1=int(input("Enter the First Number:"))
v2=float(input("Enter the Second Number:"))
print("The multiply of  two numbers is: {} * {} = {}".format(v1,v2,v1*v2))
print("The Division of two numbers is: {} / {} = {}".format(v1,v2,v1/v2))
```

```
Enter the First Number:12
Enter the Second Number:5
The multiply of  two numbers is: 12 * 5.0 = 60.0
The Division of two numbers is: 12 / 5.0 = 2.4
```

In [20]:
```
#2) Write a python program to print the characters from a string that are present at an even index.
x=input("Enter the String:")
for y in range(len(x)):
    if y%2==0:
        print("The string is:",x[y])
```

```
Enter the String:string
The string is: s
The string is: r
The string is: n
```

In [5]:
```
#3) Write a python program to print the characters from a string that are present at an odd index
x=input("Enter the String:")
for y in range(len(x)):
    if y%2!=0:
        print("The string is:",x[y])
```

```
Enter the String:string
The string is: t
The string is: i
The string is: g
```

In [3]:
```
#4) Write a python program which will print the sum of the two numbers if the two numbers are even or it will pr
#difference of two numbers
v1=float(input("Enter the 1st Number:"))
v2=int(input("Enter the 2nd Number:"))
if v1%2==0 and v2%2==0:
    print("The Sum of two numbers is: {} + {} = {}".format(v1,v2,v1+v2))
else:
    print("The Difference of two numn=bers is: {} - {} = {}".format(v1,v2,v1-v2))
```

```
Enter the 1st Number:20
Enter the 2nd Number:40
The Sum of two numbers is: 20.0 + 40 = 60.0
```

In [11]:
```
#5) Write a python program to convert all even indexed alphabets to upper and odd indexed char.
x=input("Enter the string: ")
y1=""
for y in range(len(x)):
    if y%2==0:
        y1=y1+x[y].upper()
    else:
        y1=y1+x[y].lower()
print(y1)
```

```
Enter the string: dineshreddy
DiNeShReDdY
```

In [25]:
```
#6) Write a python program which will print True if the input number is divisible by 5 or else False
x=int(input("Enter a number:"))
if x%5==0:
    print("true {} it divisible by 5" .format(x))
else:
    print("false{} it divisible by 5".format(x))
```

```
Enter a number:30
true 30 it divisible by 5
```

In [31]:
```
#7) Given two integer numbers return their product only if the product is greater than 1000, else return their s
x=int(input("Enter the 1st Number:"))
y=int(input("Enter the 2nd Number"))
if x*y>1000:
    print("The product of numbers is {} * {} = {}".format(x,y,x*y))
else:
    print("The sum of numbers is {} + {} = {}".format(x,y,x+y))
```

```
Enter the 1st Number:25
Enter the 2nd Number41
The product of numbers is 25 * 41 = 1025
```

In [33]:
```
#8) Given two strings x, y writes a program to return a new string made of x and y's first, middle, and last cha
#Example:
#Input
#X=" pytho"
#Y=" javas"
#Output
#" pjtvos"
x=input("Type input first string: ")
y=input("Type input second string: ")
u=""
u=u+x[0]+y[0]+x[len(x)//2]+y[len(y)//2]+x[-1]+y[-1]
print(u)
```

```
Type input first string: dines
Type input second string: hreddy
dhndsy
```

In [36]:
```
names("dinesh","vijay","bunny")
```

```
name 1: dinesh
name 2: vijay
name 3: bunny
```

In [50]:
```
#10) Write a Python program to get a string from a given string where all occurrences of its first char have bee
#changed to '@', except the first char itself.
#Example:
#Input:
#'malayalam’
#Output:
#'malayala@'
#Input:
#' abcabab'
#Output:
#‘abc@b@b’
x=input("Enter the string: ")
s=x[0]
print(x[0]+x[1:].replace(s,"@"))
```

```
Enter the string: abcabab
abc@b@b
```

In [7]:
```
#11) Write a Python program to add 'ing' at the end of a given string (string length should be equal to or more
#the given string already ends with 'ing' then add 'ly' instead.If the string length of the given string is less
#leave it unchanged
#Example:
#Input:
#'sing’
#Output:
#'singing'
#Input:
#' playing'
#Output:
#‘playly’
#Input:
#' on'
#Output:
#‘on’
x=input("Enter the String: ")
s=""
if len(x)>=3:
    if x[-3:]=="ing":
        s=x[:-3]+"ly"
    else:
        s=x+"ing"
print(s)
```

```
Enter the String: dineshreddying
dineshreddyily
```

In [9]:
```
#12) Write a python program that accepts two inputs num1 and num2 print True if one of them is 10 or if their su
#otherwise print False
def f(x,y):
    if x==10 or y==10 or x+y==10:
        print("True")
    else:
        print("False")
```

In [14]:
```
f(5,3)
```

```
False
```

In [15]:
```
f(6,5)
```

```
False
```

In [16]:
```
f(5,5)
```

```
True
```

In [17]:
```
f(2,10)
```

```
True
```

In [11]:
```
#13) Write a python program that accepts three inputs x, y and z print True if x*y>z otherwise False
```

In [18]:
```
def f(x,y,z):
    if x*y>z:
        print("True")
    else:
        print("False")
```

In [19]:
```
f(2,4,6)
```

```
True
```

In [20]:
```
f(4,6,9)
```

```
True
```

In [21]:
```
f(2,3,12)
```

```
False
```

In [22]:
```
#14) Write a python program that accepts two strings inputs return True depending on whether the total number of
#characters in the first string is equal to the total number of characters in the second string.
def f(x,y):
    if len(x)==len(y):
        print("True")
    else:
        print("False")
```

In [23]:
```
f("dinesh","reddys")
```

```
True
```

In [24]:
```
f("dinesh","reddy")
```

```
False
```

In [4]:
```
#15) Write a python program that takes a string input, we'll say that the front is the first three characters of
#If the string length is less than three characters, the front is whatever is there. Return a new string, which
#of the front.
x=input("Enter the string: ")
y=""
if len(x)<3:
    y=x+x
elif len(x)>=3:
    y=x[:3]
print(y)
```

```
Enter the string: dinesh
din
```

In [6]:
```
#16) Write a python program that takes in a word and determines whether or not it is plural. A plural word is on
#that ends in "s".
def f(x):
    if x[-1]=='s':
        print("The given string is Plural")
    else:
        print("The given string is not Plural")
```

In [7]:
```
f("dineshs")
```

```
The given string is Plural
```

In [8]:
```
f("dinesh")
```

```
The given string is not Plural
```

In [26]:
```
#17) A bartender is writing a simple program to determine whether he should serve drinks to someone. He only ser
#drinks to people 18 and older and when he's not on break (True means break and False means not a break time). G
#the person's age, and whether break time is in session, create a python program which prints whether he should
#drinks or not.
def f(x):
    if x=="true":
        print("Bartender should not serve drinks")
    elif x=="false":
        y=int(input("Age of the customer is:"))
        if y>=18:
            print("Bartender should serve drinks")
        else:
            print("Bartender should not serve drinks ")
    else:
        print("Input has to be True or False")
```

In [27]:
```
 f("true")
```

```
Bartender should not serve drinks
```

In [28]:
```
f("false")
```

```
Age of the customer is:18
Bartender should serve drinks
```

In [29]:
```
f("false")
```

```
Age of the customer is:19
Bartender should serve drinks
```

In [30]:
```
f("false")
```

```
Age of the customer is:17
Bartender should not serve drinks
```

In [38]:
```
#18) Manoj Kumar has family and friends. Help him remind them who is who. Given a string with a name, return the
#relation of that person to Manoj Kumar.Person Relation
#Shiva father
#Letha mother
#Tarun brother
x=input("enter a string:")
if x=="shiva":
    print("shiva is a father of manoj kumar")
elif x=="letha":
    print("letha is a mother of manoj kumar")
elif x=="Tarun":
    print("Tarun is a brother of manoj kumar")
```

```
enter a string:shiva
shiva is a father of manoj kumar
```

In [39]:
```
#19) Write a python program that takes a string, breaks it up and returns it with vowels first, consonants secon
#character that's not a vowel (like special characters or spaces), treat them like consonants.
x=input("Enter the String:")
y=""
z=""
p=('a','e','i','o','u')
for t in range(len(x)):
    if x[t] in p:
        y=y+x[t]
    else:
        z=z+x[t]
print(y+z)
```

```
Enter the String:dineshreddy
ieednshrddy
```

In [53]:
```
#20) 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:
#Answer is 190
a=float(input("Enter first number : "))
b=(input("Enter the Sign : "))
c=float(input("Enter second number : "))
if b=='+':
    print("{} + {} = {}".format(a,c,a+c))
elif b=='-':
    print("{} - {} = {}".format(a,c,a-c))
elif b=='*':
    print("{} * {} = {}".format(a,c,a*c))
elif b=='/':
    print("{} / {} = {}".format(a,c,a/c))
elif b=='%':
    print("{} % {} = {}".format(a,c,a%c))
elif b=='**':
    print("{}^{} = {}".format(a,c,a**c))
else:
    print("Invalid Sign")
```

```
Enter first number : 23
Enter the Sign : *
Enter second number : 2
23.0 * 2.0 = 46.0
```