In [1]:

```python
print('Hello World')
```

Hello World

In [2]:

```python
str = input("Enter any string: ")
print(str)
```

Enter any string: ganesh
ganesh

In [7]:

```python
# User enters the year
year = int(input("Enter Year: "))

# Leap Year Check
if year % 4 == 0 and year % 100 != 0:
    print(year, "is a Leap Year")
elif year % 100 == 0:
    print(year, "is not a Leap Year")
elif year % 400 ==0:
    print(year, "is a Leap Year")
else:
    print(year, "is not a Leap Year")
```

Enter Year: 2020
2020 is a Leap Year

In [8]:

```python
# taking user input
ch = input("Enter a character: ")
if((ch>='a' and ch<= 'z') or (ch>='A' and ch<='Z')):
    print(ch, "is an Alphabet")
else:
    print(ch, "is not an Alphabet")
```

Enter a character: z
z is an Alphabet

In [9]:

```python
# taking user input
ch = input("Enter a character: ")

if(ch=='A' or ch=='a' or ch=='E' or ch =='e' or ch=='I'
 or ch=='i' or ch=='O' or ch=='o' or ch=='U' or ch=='u'):
    print(ch, "is a Vowel")
else:
    print(ch, "is a Consonant")
```

Enter a character: O
O is a Vowel

In [10]:

```python
# two float values
val1 = 100.99
val2 = 76.15

# Adding the two given numbers
sum = float(val1) + float(val2)

# Displaying the addition result
print("The sum of given numbers is: ", sum)
```

The sum of given numbers is: 177.14

In [11]:

```python
# taking input from user
number = int(input("Enter any number: "))

# prime number is always greater than 1
if number > 1:
    for i in range(2, number):
        if (number % i) == 0:
            print(number, "is not a prime number")
            break
    else:
        print(number, "is a prime number")

# if the entered number is less than or equal to 1
# then it is not prime number
else:
    print(number, "is not a prime number")
```

Enter any number: 2
2 is a prime number

In [12]:

```python
num = int(input("Enter any number: "))
flag = num%2
if flag == 0:
    print(num, "is an even number")
elif flag == 1:
    print(num, "is an odd number")
else:
    print("Error, Invalid input")
```

Enter any number: 2
2 is an even number

In [13]:

```python
# User inputs the string and it gets stored in variable str
str = input("Enter a string: ")

# counter variable to count the character in a string
counter = 0
for s in str:
        counter = counter+1
print("Length of the input string is:", counter)
```

```
Enter a string: hello
Length of the input string is: 5
```

In [14]:

```python
# User inputs the string and it gets stored in variable str
str = input("Enter a string: ")

# using len() function to find length of str
print("Length of the input string is:", len(str))
```

```
Enter a string: shyam
Length of the input string is: 5
```

In [15]:

```python
# Python 3 program to find
# factorial of given number
def factorial(n):

        # single line to find factorial
        return 1 if (n==1 or n==0) else n * factorial(n - 1);

# Driver Code
num = 5;
print("Factorial of",num,"is",
factorial(num))

# This code is contributed by Smitha Dinesh Semwal
```

```
Factorial of 5 is 120
```

In [16]:

```python
# Python program to find Area of a circle

def findArea(r):
        PI = 3.142
        return PI * (r*r);

# Driver method
print("Area is %.6f" % findArea(5));

# This code is contributed by Chinmoy Lenka
```

```
Area is 78.550000
```

In [ ]: