1. Predict Output:

In [1]:
```
s1='Gaurav'
s2='leangaurav.me@email.com'
print(len(s1),len(s2))
```

```
6 23
```

2.WAP to input a string and print its length.

In [6]:
```
s=input('enter a string:-\t')
print(len(s))
```

```
enter a string:-        Pratiksha
9
```

3.WAP to input 2 numbers and print their sum and difference.

In [10]:
```
n1=int(input('enter a 1st number:-\t'))
n2=int(input('enter a 2nd number:-\t'))
add=n1+n2
sub=n1-n2
print("Addition of two nuber is=",add)
print("Subtraction of two number is=",sub)
```

```
enter a 1st number:-    6
enter a 2nd number:-    3
Addition of two nuber is= 9
Subtraction of two number is= 3
```

4 .Predict output:

In [11]:
```
s1='ab'
s2='de'
s3=s1+s2
print(s3)
```

```
abde
```

6. Predict output:

In [12]:
```
s1='ab'*4
print(s1)
```

```
abababab
```

7. Predict output:

In [14]:
```
s1='ab\n'*4
```

```
print(s1)
```

```
ab
ab
ab
ab
```

7. WAP to input a string s and a number n. Print the string n times on the screen, each should appear in a separate line (do not use any kind of loops, use the multiplication operator).

In [1]:

```
s=input('enter a string:-')
n=int(input('How many times,want to print a String :-'))
print((s+"\n")*n)
```

```
enter a string:-Pratiksha
How many times,want to print a String :-3
Pratiksha
Pratiksha
Pratiksha
```

9.Predict Output:

In [12]:

```
res=print('Gaurav')
print(res)
```

```
Gaurav
None
```

10. Predict Output:

In [13]:

```
res=len('leangaurav.me@email.com')
print(type(res))
```

```
<class 'int'>
```

11.Predict Output:

In [14]:

```
s1='Gaurav'
s2='leangaurav.me@email.com'
s3=s1+'\n'+s2
print(type(s3),len(s3))
```

```
<class 'str'> 30
```

12. Find the name of function to find the square root. (see all the options available in

dir() of math)

In [22]:
```
sqrt()
```

13. WAP to input a number and print its square root ().

In [3]:
```
import math
n1=int(input('enter a number:-'))
print(math.sqrt(n1))
```

```
enter a number:-5
2.23606797749979
```

14. WAP to input 4 numbers from user and print their average

In [1]:
```
n1=int(input('enter 1st number:-'))
n2=int(input('enter 2nd number:-'))
n3=int(input('enter 3rd number:-'))
n4=int(input('enter 4th number:-'))
avg=(n1+n2+n3+n4)/4
print("Average of 4 number is =",avg)
```

```
enter 1st number:-2
enter 2nd number:-3
enter 3rd number:-5
enter 4th number:-6
Average of 4 number is = 4.0
```

15.Use the help function to check what the abs function in python does

In [4]:
```
help(abs)
```

```
Help on built-in function abs in module builtins:

abs(x, /)
    Return the absolute value of the argument.
```

16. What is the output of this code when run from python interpreter.

In [5]:
```
print(__name__)
```

```
__main__
```

17. What is the output of this code when run

from a python script.

In [6]:
```
print(__name__)
```

```
__main__
```

18. Does the dir of int class contain an attribute **name** (Y/N).

In [ ]:
```
No
```

19. Predict the output of:

In [9]:
```
print(__name__)
print(__builtins__.__name__)
print(int.__name__)
```

```
__main__
builtins
int
```