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Python Assignment 2

WAP to calculate area of circle based on the radius entered by a user.

In [ ]:
```
print(3.14*((int(input()))**2))
```

```
12.56
```

WAP that accepts a sequence of student name with first name and last name and prints it in reversed order with a space between them.

In [ ]:
```
print(*input().split()[::-1])
```

```
ahire geet
```

WAP that accepts sequence of comma-separated numbers from the user and generates a list and tuple

In [ ]:
```
inp = input().split(",")
print("List: ", inp)
print("Tuple: ", tuple(inp))
```

```
List:  ['a', 'b', 'c', 'd']
Tuple:  ('a', 'b', 'c', 'd')
```

WAP that accepts an integer and computes a series of numbers in format: x + x^2 + x^3 + … + x^x

In [ ]:
```
a = int(input())
prod = 0
for i in range(a):
    prod += a
    a = a*a
print(prod)
```

```
93
```

WAP to calculate number of days between given 2 dates

In [ ]:
```
from datetime import date

date1 = date(2018, 12, 13)
date2 = date(2015, 2, 25)

if date2 > date1:
    print (date2-date1)
```

```
else:
    print (date1-date2)
```

```
1387 days, 0:00:00
```

WAP to count a specific number which will be entered by the user in a particular list

In [ ]:
```
user_list = input().split(" ") # 1 2 3 4 5 4 3 2 1 2 1 2 1
a = input("enter the number: ") # 2
print("number", a, "occurs", user_list.count(a), "times in the given list.")
```

```
number 2 occurs 4 times in the given list.
```

WAP to count vowels in the string

In [ ]:
```
vowels = ['a', 'e', 'i', 'o', 'u', 'A', 'E', 'I', 'O', 'U']
inp = input()
v_count = 0

for i in vowels:
    if i in inp:
        v_count += 1

print("Number of Vowels:",v_count)
```

```
Number of Vowels: 3
```