

**Presidential Initiative for Artificial Intelligence and**

**Computing (PIAIC)**

https://www.piaic.org AI Program

**Python Programming Assignment 1 Quarter I:**

**AI-101 Fundamentals of Programming using Python** First Quarter 2019 (12 Weeks)

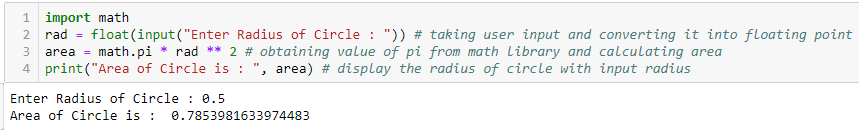
## 1. Calculate Area of a Circle

Write a Python program which accepts the radius of a circle from the user and compute the area.

Program Console Sample Output 1:

Input Radius: 0.5

Area of Circle with radius 0.5 is 0.7853981634



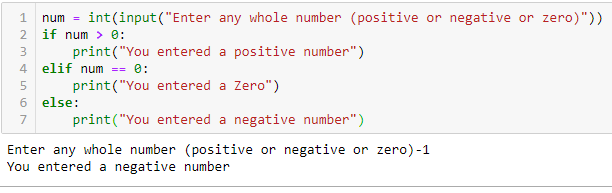
## 2. Check Number either positive, negative or zero

Write a Python program to check if a number is positive, negative or zero

Program Console Sample Output 1:

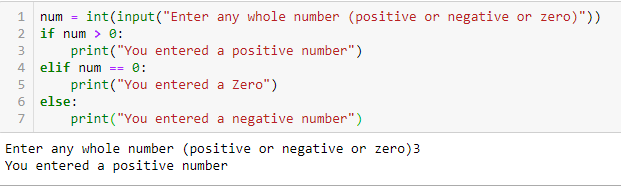
Enter Number: -1

Negative Number Entered



Program Console Sample Output 2:

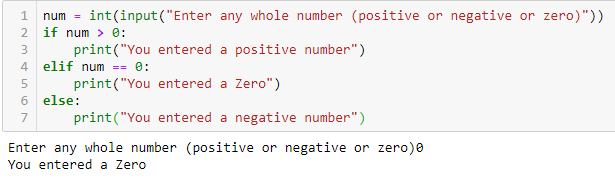
Integer: 3

Positive Number Entered 

Program Console Sample Output 3:

Integer: 0

Zero Entered



## 3. Divisibility Check of two numbers

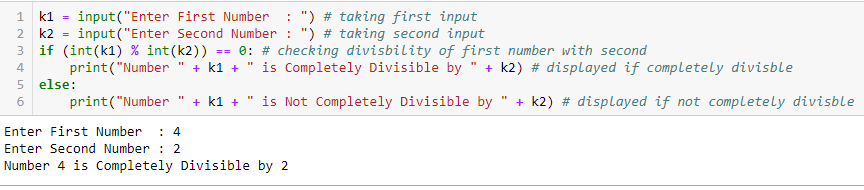
Write a Python program to check whether a number is completely divisible by another number. Accept two integer values form the user

Program Console Sample Output 1:

Enter numerator: 4

Enter Denominator: 2

Number 4 is Completely divisible by 2

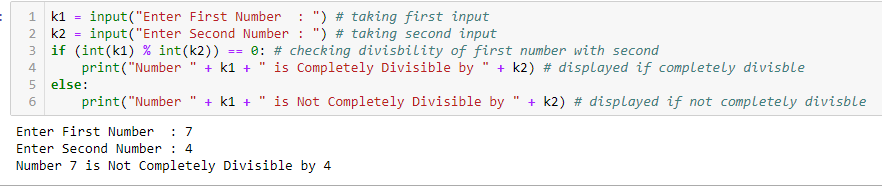


Program Console Sample Output 2:

Enter numerator: 7

Enter Denominator: 4

Number 7 is not Completely divisible by 4



## 4. Days Calculator

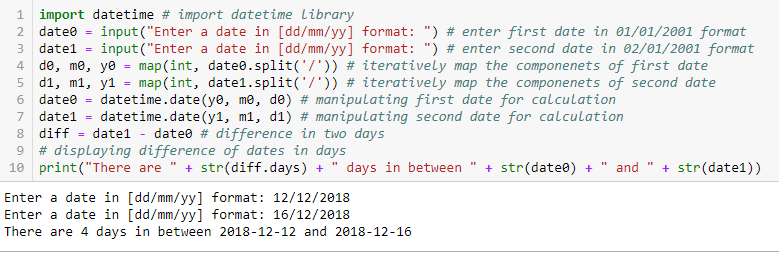
Write a Python program to calculate number of days between two dates

Program Console Output:

Enter a date in (dd/mm/yy) format: 12/12/2018

Enter a date in (dd/mm/yy) format: 16/12/2018

There are 4 days in between 12/12/2018 and 16/12/18



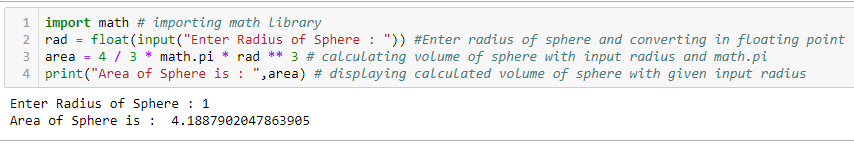
## 5. Calculate Volume of a sphere

Write a Python program to get the volume of a sphere, please take the radius as input from user

Program Console Output:

Enter Radius of Sphere: 1

Volume of the Sphere with Radius 1 is 4.18



## 6. Copy string n times

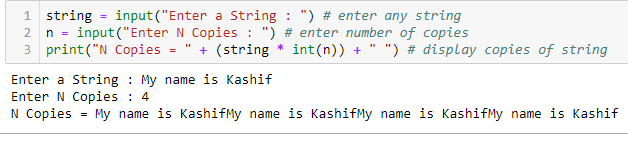
Write a Python program to get a string which is n (non-negative integer) copies of a given string.

Program Console Output:

Enter String: Hi

How many copies of String you need: 4

4 Copies of Hi are HiHiHiHi



## 7. Check if number is Even or Odd

Write a Python program to find whether a given number (accept from the user) is even or odd, print out an appropriate message to the user

Program Console Output 1:

Enter Number: 4

4 is Even

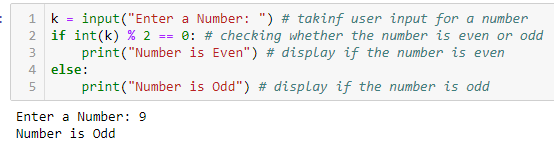
![A screenshot of a cell phone

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDcRXhpZgAATU0AKgAAAAgABAE7AAIAAAAGAAAISodpAAQAAAABAAAIUJydAAEAAAAMAAAQyOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEhQIFBDAAAFkAMAAgAAABQAABCekAQAAgAAABQAABCykpEAAgAAAAMzNgAAkpIAAgAAAAMzNgAA6hwABwAACAwAAAiSAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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fs9z/z3i/79H/4qj7Pc/8APeL/AL9H/wCKq1RQBV+z3P8Az3i/79H/AOKo+z3P/PeL/v0f/iqtUUAVfs9z/wA94v8Av0f/AIqj7Pc/894v+/R/+Kq1RQBV+z3P/PeL/v0f/iqPs9z/AM94v+/R/wDiqtUUAVfs9z/z3i/79H/4qj7Pc/8APeL/AL9H/wCKq1RQBV+z3P8Az3i/79H/AOKo+z3P/PeL/v0f/iqtUUAVfs9z/wA94v8Av0f/AIqj7Pc/894v+/R/+Kq1RQBV+z3P/PeL/v0f/iqPs9z/AM94v+/R/wDiqtUUAVfs9z/z3i/79H/4qj7Pc/8APeL/AL9H/wCKq1RQBV+z3P8Az3i/79H/AOKo+z3P/PeL/v0f/iqtUUAVfs9z/wA94v8Av0f/AIqj7Pc/894v+/R/+Kq1RQBV+z3P/PeL/v0f/iqPs9z/AM94v+/R/wDiqtUUAVfs9z/z3i/79H/4qj7Pc/8APeL/AL9H/wCKq1RQBV+z3P8Az3i/79H/AOKoq1RQAVx3xGvP7PsdFuv7SsdL8vVYz9s1Bd0EX7uQZcb047feHJH0rsaKTV7eqf3O407X+Zws93J4g/4RqFfEsN9b3lxcJc3egytbxXCrE52ArI7LggZKvnI4I6ViX1pbXngzSr7XtR1FbfS9bmtpLv8AtS4h8uBLmSJXkdXGSAqDzG5HJyMmvVaKbSf3p/cT0a7/AOR5j4u1WC1tvD8Wm6nC/hyaKZhqFz4muLOKWQFdim9QSOxwZCFLANtPXbip7S31HWtR8K2Go+IJpYJdJu5rmTSb9vLvQskAjPnIEY4DA712knPRWIPobXMCXMds80azyqzxxFwGdVxuIHUgblye2R61JTXn5/r/AJ/gUtLFPSLKfTtHtbK7vZL+aCMRtcyjDy44DNycnHU9zzXnvxQ8Qi0v3sI5mtbqHT2uYJH12bT97ksAIY4UY3MgKZKMCB8vHzGvTqKmSb6gnYqaVcSXejWVxMQZJrdHcgYySoJrzLxqPsMfjvVkHyrbm0ucd45LNQpx7SbeewZq9RuL60tJreG6uoYZbl/LgSSQK0rYJ2qD944BOB2BqenL3pXQU24WvqeZa94oTSLTxLY3GqyW9/JFbvp9uJW80oYkBeJRztDBtzDgYYkjmsjxVPqK32v3cWt6tC0Cai0UcN66Rp5MMEkYCggcOxbPU52klSVr2SihaS5v63TJirNdtPnZP/P8DyX7XbDxDqiafr8w8RjX4jBpcN6eYj5HmlrdSA6FN5LuDtAyCMU+z1bVbj4gNFcapp9jqK6q8f2S78QzJJJahyFVLAx+W26PDBwxJJzu6qPV6KI6W8v+B/l+Ire613/4P+Zw+h6Nfape3epya/qQmtdbnEMRncwrAshVoTGGCuCM4ZslcjbjGK3rOWxbxpqcUWp3ct8trbmawdmMMCEybHQYwGbDA4J+6vTvtUUo6RUe3+Vinq2+/wDncjuJJIrWWSCEzyohZIlYKXIHC5PAz0ya818JPqdt8QoP7V8Papb399YTTX1zcS2rLvMkfI8uZj5ahVjUYzgLkdTXp1FNaS5v62f9fIUlzR5f63TCiiigYUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFcZ4+spL/UvDMdsQt1HqEk1uxOAJUtpWXJ9CQAfYmuzqOS3gmlilmhjkkhYtE7KCYyQQSp7HBI47E0Cep5/wCGfED3OtRPZSmO11PWbnzY3UBji0VgpyMghhyODwQaybnxhr99YRXOk67Gkf8Ap8ySx28UqTLFfpDEM45TY2DtwT/eB5r0e58NaFeWMlld6Lp09rLObiSCW0RkeU8mQqRgsf73WpRomlBNo0yzCgMMfZ1xhnDt27sAx9SM9aelkuyt+FvzFytRaT3d/wAbnntodY1rxJokL67PBcQf2xbSX6W8JmeOK5iRcAr5at8q5OwjAPAJyBvFPiLU7bRbKzk1J557Se4e50dLHzLoRy+Wsg+0sE2MMOQik/OuCo691qHhTw7q0aR6roOmXqRu8iLc2ccgV3OXYBgcFjyT3PWptT0DR9btI7XWdJsdQt4mDRw3dskqIQMAhWBAOCRS7f13/wAzSTTen9a3/LQ5VrnxZqWraBpk+oDQ5bnSZrjUlggikkWZGhA8stvReXOc7xgkDnDDr9JS/i0e0j1iWKa/SJVuJYRhHcDlgMDAJ5xTrfTrG08j7LZ28P2aHyIPLiVfKj4+RcDhflXgccD0qzVN6f13ZCWv9dkcp4ot5F8WeFrv7UzRNqBg+yyW8LoCbeZvMVmQyI/ygZVwMZGOTUHizUNY0rXIr6a41K28OwRI802mravsYOd5nWZS5Tbtx5Pzffz/AA1t6p4S8N65eC71rw/peo3KoEE13ZRyuFGSBuYE45PHvT7rwvoF7qkOpXuh6bcX8G3ybqW0jeWPacrtcjIweRg8VK6epUnfbtb8TU6151/YQ1H4l6zdt4W0DVRBdW2b7UJNtxb4hQ/ux5D5x1Hzrz6da9FrJvPCnh3UNVXU7/QNLur9CpW7ms43lUr90hyM8dueKVveTDo0Yj6rq41a60EXjC9bU4nguBCpK2TDzWyMY4CSxZ6/dPU1l6dr/irVfE0txZWmpyWUOqyWUsJ+wizSFHKM5Jf7R5mBv6YOQAuCGrvjZWrX63zW0Ju0jMS3BjHmKhIJUN1wSAcdOBVSXw3oc+tJrE2jafJqceNl89qhmXAwMSY3DjjrTjpb+u3+X4sUtU1/XX/P8NjkbHU9fa8t9SuNbaS2fX7jTvsAtoljMAllRSW27y4Kj5gwGAAVJyx9Aquun2SoqLZwBVmM4URLgSEkl+n3iSTnrkmrFC21/rRfrccneTa2/wCC/wBLBRRRQIKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAoqn/ZGm/wDQPtf+/C/4Uf2Rpv8A0D7X/vwv+FAFyiqf9kab/wBA+1/78L/hR/ZGm/8AQPtf+/C/4UAXKKp/2Rpv/QPtf+/C/wCFH9kab/0D7X/vwv8AhQBcoqn/AGRpv/QPtf8Avwv+FH9kab/0D7X/AL8L/hQBcoqn/ZGm/wDQPtf+/C/4Uf2Rpv8A0D7X/vwv+FAFyiqf9kab/wBA+1/78L/hR/ZGm/8AQPtf+/C/4UAXKKp/2Rpv/QPtf+/C/wCFH9kab/0D7X/vwv8AhQBcoqn/AGRpv/QPtf8Avwv+FH9kab/0D7X/AL8L/hQBcoqn/ZGm/wDQPtf+/C/4Uf2Rpv8A0D7X/vwv+FAFyiqf9kab/wBA+1/78L/hR/ZGm/8AQPtf+/C/4UAXKKp/2Rpv/QPtf+/C/wCFH9kab/0D7X/vwv8AhQBcoqn/AGRpv/QPtf8Avwv+FH9kab/0D7X/AL8L/hQBcoqn/ZGm/wDQPtf+/C/4Uf2Rpv8A0D7X/vwv+FAFyiqf9kab/wBA+1/78L/hR/ZGm/8AQPtf+/C/4UAXKKp/2Rpv/QPtf+/C/wCFH9kab/0D7X/vwv8AhQBcoqn/AGRpv/QPtf8Avwv+FH9kab/0D7X/AL8L/hQBcoqn/ZGm/wDQPtf+/C/4Uf2Rpv8A0D7X/vwv+FAFyiqf9kab/wBA+1/78L/hR/ZGm/8AQPtf+/C/4UAXKKp/2Rpv/QPtf+/C/wCFH9kab/0D7X/vwv8AhQBcoqn/AGRpv/QPtf8Avwv+FH9kab/0D7X/AL8L/hQBcoqn/ZGm/wDQPtf+/C/4Uf2Rpv8A0D7X/vwv+FAFyiqf9kab/wBA+1/78L/hR/ZGm/8AQPtf+/C/4UAXKKp/2Rpv/QPtf+/C/wCFH9kab/0D7X/vwv8AhQBcoqn/AGRpv/QPtf8Avwv+FH9kab/0D7X/AL8L/hQBcoqn/ZGm/wDQPtf+/C/4Uf2Rpv8A0D7X/vwv+FAFyiqf9kab/wBA+1/78L/hR/ZGm/8AQPtf+/C/4UAXKKp/2Rpv/QPtf+/C/wCFH9kab/0D7X/vwv8AhQBcoqn/AGRpv/QPtf8Avwv+FH9kab/0D7X/AL8L/hQBcoqn/ZGm/wDQPtf+/C/4Uf2Rpv8A0D7X/vwv+FAFyiqf9kab/wBA+1/78L/hR/ZGm/8AQPtf+/C/4UAXKKp/2Rpv/QPtf+/C/wCFH9kab/0D7X/vwv8AhQBcoqn/AGRpv/QPtf8Avwv+FH9kab/0D7X/AL8L/hQBcoqn/ZGm/wDQPtf+/C/4Uf2Rpv8A0D7X/vwv+FAFyiqf9kab/wBA+1/78L/hR/ZGm/8AQPtf+/C/4UAXKKp/2Rpv/QPtf+/C/wCFFAH/2Q==)

Program Console Output 2:

Enter Number: 9

9 is Odd



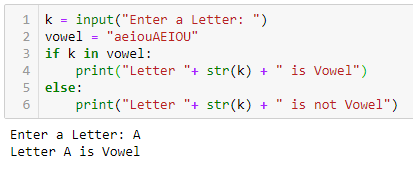
## 8. Vowel Tester

Write a Python program to test whether a passed letter is a vowel or not

Program Console Output 1:

Enter a character: A

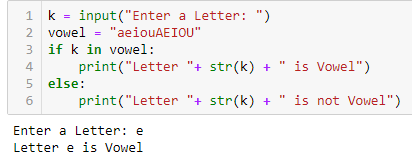
Letter A is Vowel



Program Console Output 2:

Enter a character: e

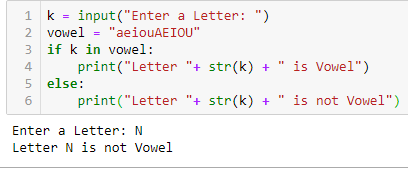
Letter e is Vowel



Program Console Output 3:

Enter a character: N

Letter N is not Vowel



## 9. Triangle area

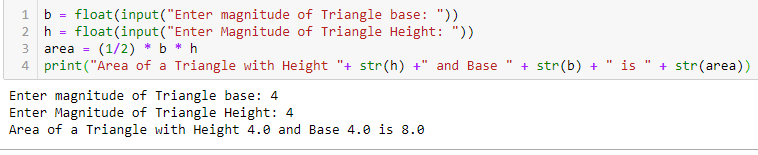
Write a Python program that will accept the base and height of a triangle and compute the area

Program Console Sample 1:

Enter magnitude of Triangle base: 4

Enter Magnitude of Triangle Height: 4

Area of a Triangle with Height 4 and Base 4 is 8



## 10. Calculate Interest

Write a Python program to compute the future value of a specified principal amount, rate of interest, and a number of years

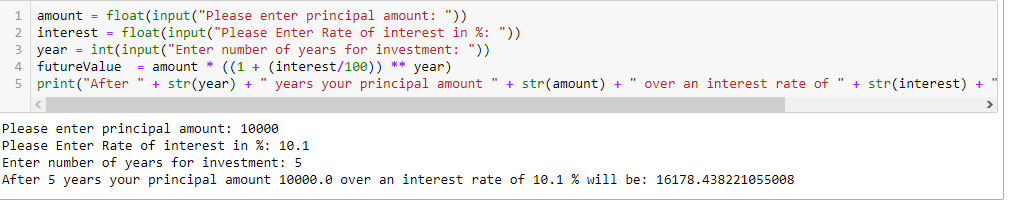
Program Console Sample 1:

Please enter principal amount: 10000

Please Enter Rate of interest in %: 10.1

Enter number of years for investment: 5

After 5 years your principal amount 10000 over an interest rate of 10.1 % will be 16178.44



## 11. Euclidean distance

Write a Python program to compute the distance between the points (x1, y1) and (x2, y2).

Program Console Sample 1:

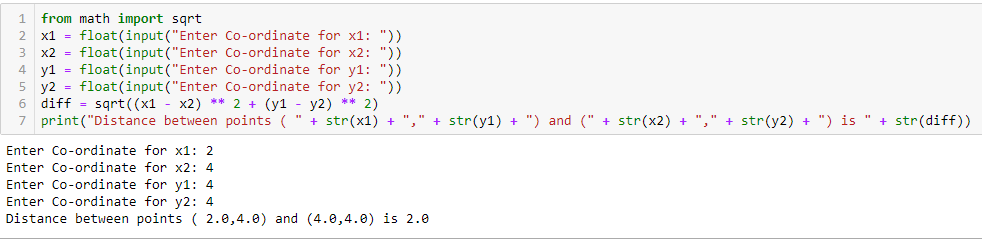
Enter Co-ordinate for x1: 2

Enter Co-ordinate for x2: 4

Enter Co-ordinate for y1: 4

Enter Co-ordinate for y2: 4

Distance between points (2, 4) and (4, 4) is 2



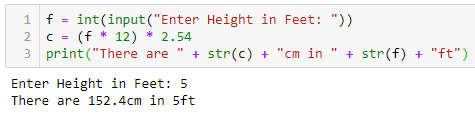
## 12. Feet to Centimeter Converter

Write a Python program to convert height in feet to centimetres.

Program Console Sample 1:

Enter Height in Feet: 5

There are 152.4 Cm in 5 ft



## 13. BMI Calculator

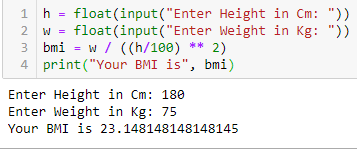
Write a Python program to calculate body mass index

Program Console Sample 1:

Enter Height in Cm: 180

Enter Weight in Kg: 75

Your BMI is 23.15



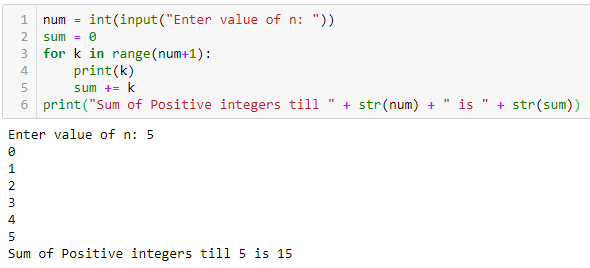
## 14. Sum of n Positive Integers

Write a python program to sum of the first n positive integers

Program Console Sample 1:

Enter value of n: 5

Sum of n Positive integers till 5 is 15



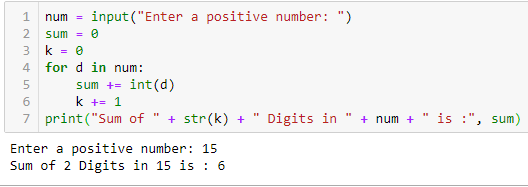
## 15. Digits Sum of a Number

Write a Python program to calculate the sum of the digits in an integer

Program Console Sample 1:

Enter a number: 15

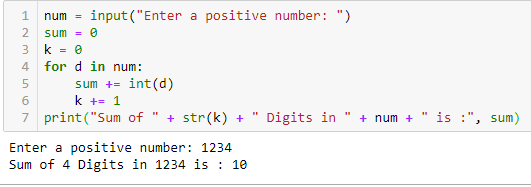
Sum of 1 + 5 is 6



Program Console Sample 2:

Enter a number: 1234

Sum of 1 + 2 + 3 + 4 is 10



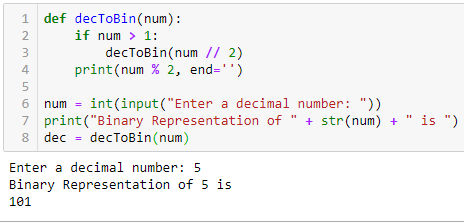
## 16. Decimal to Binary Converter

Write a Python program to convert an decimal integer to binary

Program Console Sample 1:

Enter a decimal number: 5

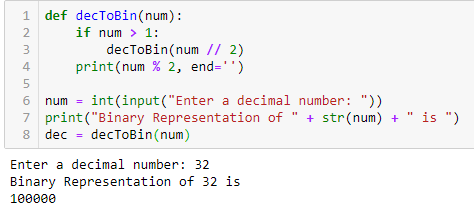
Binary Representation of 5 is 101



Program Console Sample 2:

Enter a decimal number: 32

Binary Representation of 32 is 100000



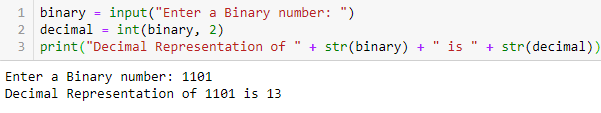
## 17. Binary to Decimal Converter

Write a program to convert binary number to Decimal number

Program Console Sample 1:

Enter a Binary number: 1101

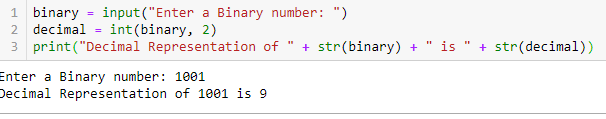
Decimal Representation of 1101 is 13



Program Console Sample 2:

Enter a Binary number: 1001

Decimal Representation of 1001 is 9



## 18. Vowel and Consonants Counter

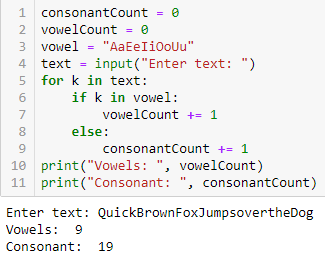
Input a text and count the occurrences of vowels and consonant

Program Console Sample 1:

Enter text: QuickBrownFoxJumpsovertheDog

Vowels: 9

Consonants: 19



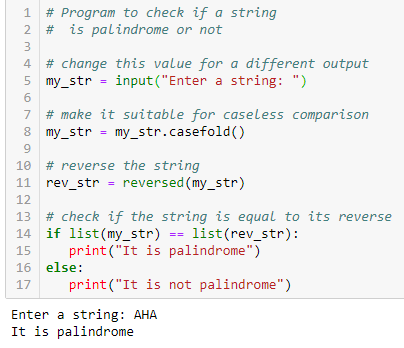
## 19. Palindrome tester

Write a program to check whether given input is palindrome or not

Program Console Sample 1:

Enter text: AHA

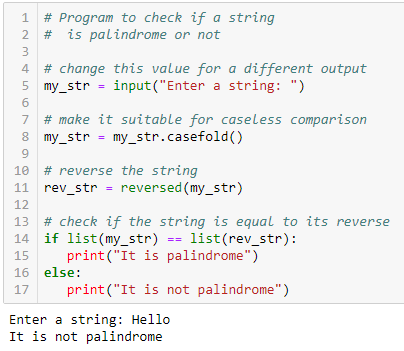
Text AHA is Palindrome



Program Console Sample 2:

Enter text: Hello

Text Hello is not a Palindrome



## 20. Count Alphabets, Numbers and Special Characters

Write a Python program that accepts a string and calculate the number of digits and letters

Program Console Sample 1:

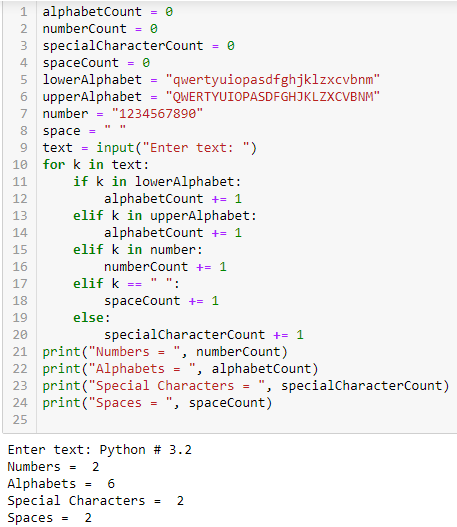
Enter text: Python 3.2

Numbers = 2

Alphabets = 6

Special Characters = 1

Spaces = 1

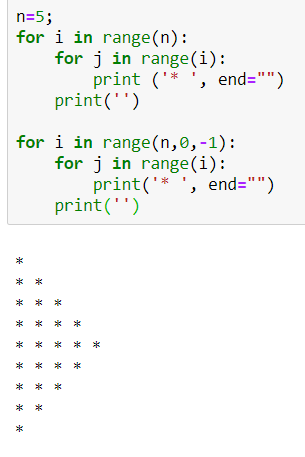


## 21. Write a Python program to construct the following pattern

\*

* \*
* \* \*
* \* \* \*
* \* \* \* \*
* \* \* \*
* \* \*
* \*

\*



**22. Write a Python program to construct the following pattern**

1

1 2

1 2 3

1 2 3 4

1 2 3 4 5

1 2 3 4

1 2 3

1 2

1

![A screenshot of a cell phone

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDcRXhpZgAATU0AKgAAAAgABAE7AAIAAAAGAAAISodpAAQAAAABAAAIUJydAAEAAAAMAAAQyOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEhQIFBDAAAFkAMAAgAAABQAABCekAQAAgAAABQAABCykpEAAgAAAAM5NwAAkpIAAgAAAAM5NwAA6hwABwAACAwAAAiSAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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UAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAZ+uPpMejTv4imtodNXaZ3u5RHFjcMBySBgnAweDnHOa534W6tpup+B7dNM1C1u2t5JRKtvMshjJlcqGweMjkZ7V2VFLqK2tzB8Y+JNI8J6GNW1zytscqrbLIVUtMwIUKzEBScn5iQAMkkDNVfh8LP/hFd9jqen6iZ7qe4uH06dZYIppZDI8aMOoUvjnk9cDOK6iimtL/ANf1/Xzb1sFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQBXvrNb+ze2klmiSTG5oJDGxGeQGHIz0yMHngiue+G8aQ/D/T4okVI0aZVVRgKBM+ABXQ3+n2Wq2MllqlnBe2suBJBcRLJG+DkZVgQeQDVfSfD+jaBHJHoWk2OmJKQ0i2dskIcjoSFAzS6ia1TKviz+wl0CR/FMEdzp6OpNtKhkE75wieX/y0JYjCYOWxgZAqDwPpdzo/hWG2vIfsxaWWaKz3bhZxPIzJBkcfIpC4HAxgcAVqaro2l67aC11vTbTUbdXDiG7gWVAwyAcMCM8nn3pdL0fTNDtDa6Lp1pp1uWLmG0gWJCx6naoAzwOaa0uN9Cn4m0iLWNHMMuh6Vrbo4eK11UgQ7uhbPlyYIBOMKfTjNVPAThvBdnEN2bZ5bdsnKho5WQhDk5jBUhP9kLwOg1dW0PSdet0t9c0uy1KGN96R3lukyq2MZAYEA4JGfercEEVtbxwW0SQwxKEjjjUKqKBgAAcAAdqF1B7ofRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQBXvoJ7mzeG1umtJHwPORAzKM87Q2RnGcEggeh6Vh/D+aafwPYvczzXEgaZTLPK0jsBK4GWYkngAcmty/sYtSsZLS4e4SOTG5re4kgkGDnh42Vh07EVS0Dw3pvhmze10gXSQM27ZcXs1wFPJO3zXbbkkk4xk0uomtUxfEUVlJosz6tqE+n2MI824mgumtjsXnBkUhlHQ/KQTjGcEg0vA4v8A/hFYW1Nro75ZXtvtjEzrbGRjCJC3zbxHtzuy397nNXtf8O6b4msI7LWIppII5knQQ3MsDCRDlW3Rsp4PI56gHqBU+l6Vb6PaG2tJLuRCxbN3eTXL5P8AtyszY46ZxTXX+v6/rvo30/r+v67FPxNZrd6Od1nqt6Y3DLBpV+1pM56ffEsQwAckFscdCcVD4KupbvwlaNdXEk9xEZIJjLkujpIymNifvFSNpb+Lbuyc5rQ1bR7bWrdILyW9jRH3g2d9NasTjHLROpI56E4qawsLXS7GKzsIRDBEMKoJPU5JJPJJJJJOSSSTyaF1B7o474i+KbPTY4tDk1210Wa8heaa5mvFt5EhTtGSQd7thRg5A3MOQK3/AAdqcOr+C9Jvbe9jvhJaR750lEm5woDZYE5IYEHvnNa8sSTwvFKNySKVYZxkEYNNtLWGxs4bS1TZBBGsca5J2qowBk8ngUR0Tv1t+v8AwBSV5Jrpf9CWiiigYUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAFe+F41m66a0KXDYCvOpZU55JUEFsDPGRn1HWsjwRf3mp+DrK61K4a6uWMqvMyKpfbIygkKAOgHQCte/tpbyxkgt764sJHxtubdYzInOeBIrL7cqetZvhjw5/wjGmGwj1W+1GEMWj+2CHMeSWIBjjTOSSec+2KWtxO90y5q9tc3VgY7TVJNK53SXUUcbOqDk7fMDIO3JVuM8ZwRm+CNRvdV8LxXWoTG5LTSrb3ZjCG6gEjCKYgADLoFbgAHOQACBU/irw3F4r0Q6Xc395ZQNIryG0MeZQDnYwkRlZDxlSMHGDwSDc0mwn02y8i51O61Nt2RNdJCrAf3cRIi4H0z7011G+hU8TFo9HMy6nqunCNwWk0qzW6mYHjb5ZhlJGTk4XIx1AzSeEdRuNV8K2V3ezJNcMrLI6gA5ViuHA4VxjDLxhgwwMYq3q2n3Oo26R2er3ulOr7jLZpCzMMfdPmxuMd+ADx1pdJ0q30bTks7UyMoZpHklbLyyOxZ3Y+rMSTgAc8ADihdQe6Mnxfq19bWq6doT+XqVzG8nn7Vb7JCgy8pDZBPRVBBG5hkEA1p+H7qa+8M6Zd3T7557OKSR8AbmZAScDgcmq+t+EvD/iT5td0XT7+URmNJrm0jleMH+6zA49as6Joth4d0W10rSbeO3tbZAiIiKufViFAGSeScckk0R2d/L9f+AKV+ZNba/p/wTnvGeoXdlqtgv8Aamt6Zp7W8zzT6RpYvD5gMe0P+4l2DBc5wOnXiupsJornTrae2uxewyRK0dyrKwmUjh8rhTnrxxzxVLWNHuNVaMRa5qOmwgFZYrMQgTA+rPGzLxxlGU89c4NXbKyt9OsLeysohDbW0axRRjoiKMAfkKF8Nv66je5PRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAV76W6hs3awt1ubjgJG8nlrknGWbBwB1OATxwDWb4Q1a71zwraX+oiEXMhkWTyEKoSsjLkAkkfd9TWlfpeyWMi6XcQW10ceXLcQNNGvPOUV0J4z/EP6VkeD9C1Lw5oo07UtStdQWN2aF7eza3KhmLENmV88txjHHrS1uJ3ujT1RdTez2aLLaQXLMB513E0qRr3OxWUse2Ny9c54wc/wjrNzrug/ar5YfPjuZ7ZpLcERTeVIyeYgJJCttyBk4zjJxml8WaPqWvaC+n6Rqy6VJK6+bMYGl3xfxRja6Mu7puDAgZxg4Is6DYXmmaRFZX0tjJ5ACQiws2tYo4wAFUIZH6Y9fwprr/X9f15DfT+v6/rzIfE19Npujm7i1rStFSNx5t3qsJkhCngD/Wx4JJGDu9sc1J4a1OfWPDdlqF3GkctxHvPl52uM8OoPIDDDAHJAOMmptWh1aa3QaHe2VnMHy73lm9wpXHQKssZBzjnJ+lR6BoyaFpC2ay+c5llnlk2BA0kjtI5Cj7o3McDnA7nrQuoPdFPxZrtzo+npFpUST6pdblto5VJRAo3PI+CDsVRnqMkquQWFaGiXsmpaBp99OFWW5tY5nCDCgsoJxntzVDX/AAfpniGb7TdvfQ3Qt2t0mtdQuLfCNzgrFIoYZwcH0q34e0aPw94estKhmmnW1iWPzJpXkZiBycuzED0GcAcDgUR2d/L9f+AKV+ZW21/T/gmlRRRQMKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigCvfXTWdm80dtNdOMBYYACzknAAyQB16kgDqTVLwzrL+IPDttqctstrJNvDQrL5gQq7KcNgZ+76Crt+97HYyNpdvBc3Qx5cVxO0Mbc85dUcjjP8J/rWJ4H03WdG8Orp2u29jE8LuY3s7t5g4Z2c53Rptxux3z7dKWtxO90a+qT6hb2edIsYr26Zgqxz3HkRqO7M4ViB9FY5I4xkir4b1s6/pJupbb7JPDcS2txCJPMVJYnKPtbA3LlTg4BIxkDpUXiyHxDc6C8HhKS0ivpXVWlupmj8uP+IowR8PjgEqQCckHGDJ4XsbjTNAhsbrTrTT/s/wAiQ2l49ypXruMjxoxYkkkkEk8kkmmuo30/r+v67lnVZdVhtVbRLOzvJ9+GS8u2t1C4PIZY5CTnHGPxpug6r/bmhWuo+QYDOpJjLbgCCQcN/EuRkHjIwcDNV/E9jPqWk/ZIdE0rW45HHm2urTmOEqOQf9VJkggcFR654p3hnSp9F0CGyupVkkV5H2oSUhDOWESZ52ICEXpwo4HQC6g90a1FFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAFe+voNOs3ubosI1wMIhdmJOAFVQSxJIAAGTVfQdZh8QaJb6nbQzQRz7sRThQ6FWKkHaSOoPQmrF/cy2djJPb2NxfyJjbbW7RiR+ccGRlX35YdK5/4fR6laeFo7HV9HutMnt5JDi4khcSBpGcFTFI/QEA5xz60uone6NzVNQk02z86HT7vUZWYKlvaKu9ifd2VFAAJyzAdupAMWh61b6/pYvbWOaHEjwywzqBJDIjFHRsEjIYEZBIPUEjmqviy91yx0F38L6Y2o6hI6xqoeMeSp6yESOgbaP4dwycDIGSG+D7T7D4djt202/sHWR2kGoSQvNPIx3PKxid1yzEnqPoBimuv9f1/XmN9P6/r+vI3aKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigCK6uoLK1kubyaOCCJd0ksjBVUepJ6VBpWq2et6XDqGmytLbTAlHaNkJwSDlWAI5BHIpdUubaz097m+hlnhhZX2Q2r3D5DDBWNFZiQcHgcYz2rnfhrdeZ4PhtpLW+tZreSXzEvLGa2PzSuwx5iru4I6Zx3pdRO90dbRRRTGFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAf//Z)

**23. Write a Python program to construct the following pattern**

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