**Practical File**

**Of**

**Problem Solving using**

**Python Programming**

**23CS001**

***Submitted***

***in partial fulfilment for the award of the degree***

# of

**BACHELEOR OF ENGINEERING**

***in***



COMPUTER SCIENCE & ENGINEERING

**CHITKARA UNIVERSITY**

**CHANDIGARH-PATIALA NATIONAL HIGHWAY RAJPURA (PATIALA) PUNJAB-140401 (INDIA)**

December, 2023

**Submitted To: Submitted By:**

Dr. Preeti Sharma Aneet Kaur

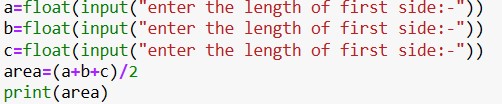
Teacher 2310992594

Chitkara University, Punjab 1st semester,2023

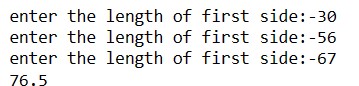
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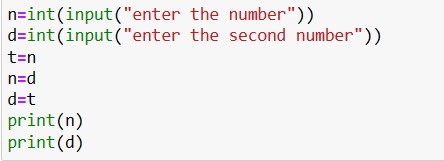
**Program 1:**  Write a Python Program to Calculate the Area of a Triangle.



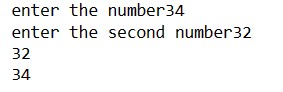
**Output:**



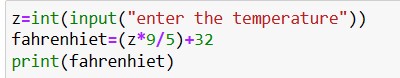
**Program 2:** Write a Python Program to Swap Two Variables.



**Output:**



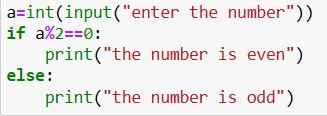
**Program 3:**Write a Python Program to Convert Celsius to Fahrenheit.



**Output:**



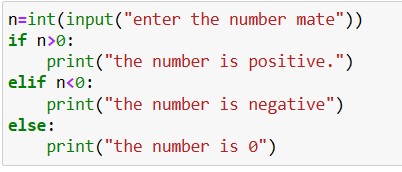
**Program 4:**Write a Python Program to Check if a Number is Odd or Even



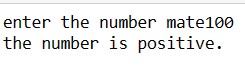
**Output:**



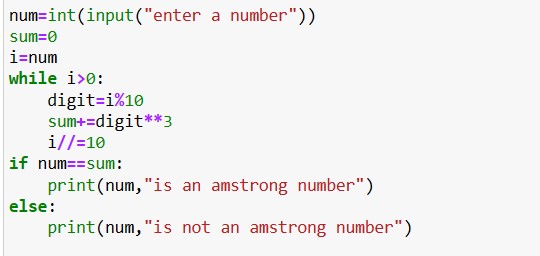
**Program 5:**Write a Python Program to Check if a Number is Positive, Negative or 0.



**Output:**



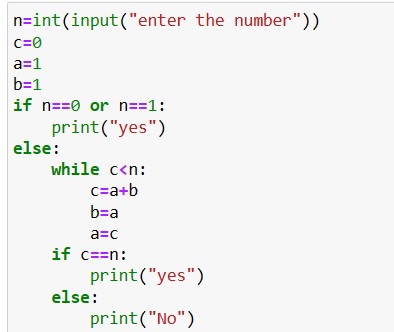
**Program 6:**Write a Python Program to Check Armstrong Number.



**Output:**



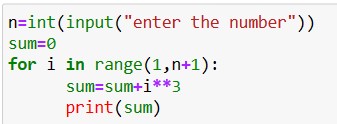
**Program 7:**Write a Python program to check if a given number is Fibonacci number?



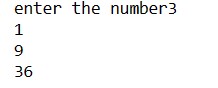
**Output:**



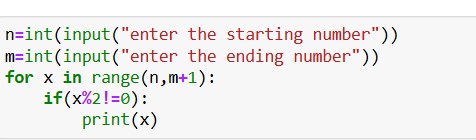
**Program 8:** Write a Python program to print cube sum of first n natural numbers.



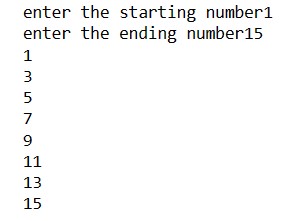
**Output:**



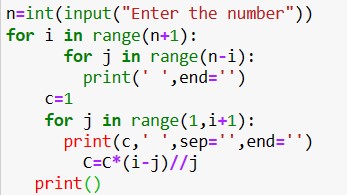
**Program 9:** write a Python program to print all odd numbers in a range.



**Output:**



**Program 10:**Write a Python Program to Print Pascal Triangle.



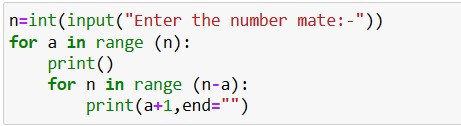
**Output:**

**Enter the number :4**

**1**

**1 1**

**Program 11:** write a program to draw the following Pattern for n number.



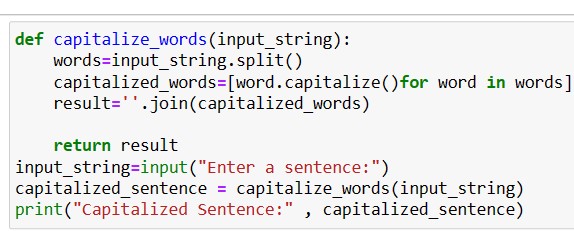
**Output:**

**Enter the number:4**

**11**

**1122**

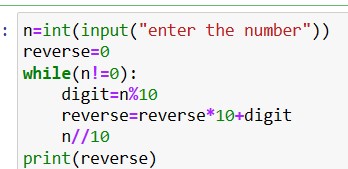
**Program 12:** Write a program with a function that accepts a string from keyboard and create a new string after converting character of each word capitalized. For instance, if the sentence is “stop and smell the roses” the output should be “Stop And Smell The Roses”



**Output:**



**Program 13:** Write a program that accepts a list from user. Your program should reverse the content of list and display it. Do not use reverse () method.

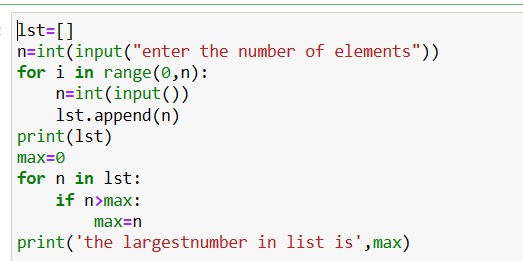


**Output:**

**Enter your number:4567**

**7654**

**Program 14:** Find and display the largest number of a list without using built-in function max (). Your program should ask the user to input values in list from keyboard



**Output:**

**Enter the elements:5**

**56**

**445**