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Practical No.1: Python Program for Pascal Triangle:
rows = int(input("Enter number of rows: "))
for i in range(rows):
  for j in range(i + 1):
    print(j + 1, end=" ")
  print()
Practical No.2: Find out Roots of Quadratic Equations
from math import sqrt
import cmath
a=int(input("enter the number a: "))
b=int(input("enter the number b: "))
c=int(input("enter the number c: "))
d=(b**2)-(4*a*c)
root1=(-b-cmath.sqrt(d))/(2*a)
root2=(-b+cmath.sqrt(d))/(2*a)
print("the roots are ", root1, root2)
Practical No.3: Program to display Fibonacci series
a=0
b=1
num=int(input("enter a number"))
if num==1:
  print(a)
else:
  print(a)
  print(b)
  for i in range(2,num):
    c=a+b
    a=b
    b=c
    print(c)
Practical No.04: To check the given number is Palindrome or Not
value = input("Enter a number: ")
reversed_value=value[::-1]
if value ==reversed value:
  print("The number is a palindrome!")
else:
  print("Not a palindrome!")
Practical No.05: To find the sum of digits of a given number:
number = input("Enter a number: ")
sum of digits = 0
for digit in number:
  sum of digits=sum of digits + int(digit)
print("The sum of the digits in the number is:", sum_of_digits)
Practical No. 06: Python program to remove the punctuations from a string.
punctuation = """!()-[]{};:"\,<>./?@#$%^&*_~""
string = input("Enter a string: ")
no_punct = ""
for char in string:
  if char not in punctuation:
    no_punct = no_punct + char
print(no_punct)
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Practical No.07: Python program to implement the simple calculator
a=float(input("enter first number: "))
b=float(input("enter second number: "))
print("please select the operation")
print("1.add")
print("2.Subtract")
print("3.Multiply")
print("4.Divide")
choice=int(input("select choice from 1 to 4: "))
if choice==1:
  print(a+b)
elif choice==2:
  print(a-b)
elif choice==3:
  print(a*b)
elif choice==4:
  print(a/b)
else:
  print("invalid input")
Practical No.08: Python program for reverse string:
string = input("Enter a string: ")
rev_string=(string[::-1])
print("original string is: ", string)
print("reversed string is: ", rev_string)
Practical No.09: Python Program implementation of the Anonymous Function Lambda.
# Example of a lambda function
multiply = lambda x, y: x * y
# Using the lambda function
result = multiply(4, 6)
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print("Result:", result)