MEGHNAD SAHA INSTITUTE OF TECHNOLOGY

*Techno Complex, Madurdaha,Beside NRI Complex, Post-Uchhepota, Kolkata 700 150*

LABORATORY NOTE BOOK

MAKAUT ODD SEMESTER 2024



[MASTERS OF COMPUTER APPLICATION]

[PROGRAMMING CONCEPT WITH PYTHON LAB (MCAN191)]

[RUPAK SARKAR]

ROLL NO: REGN. NO.:

STREAM: MCA SEMESTER: I (1ST)

YEAR: 1ST YearSESSION: 2024-2026



MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY



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“LIST OF ASSIGNMENT/EXPERIMENT SUBMISSION DETAILS”

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| **SL.**  **NO.** | **ASSIGNMENT / EXPERIMENT NAME** | **DATE OF PROJECT** | **DATE OF SUBMISION** | **CHECKED BY** | **REMARKS (ANY DEVIATION REGARDING SUBMISSION DATES, CONTENT, FORMAT, ETC)** |
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| OBSERVATIONS / COMMENTS ON THE OVERALL PERFORMANCE: |

Signature in full with date Signature in full with date

**Faculty / Technical Assistant Lab Examiner**

**Q.1. Write a program in python to calculate the distance between 2 points where x1,y1 and x2,y2:**

Ans:

import math

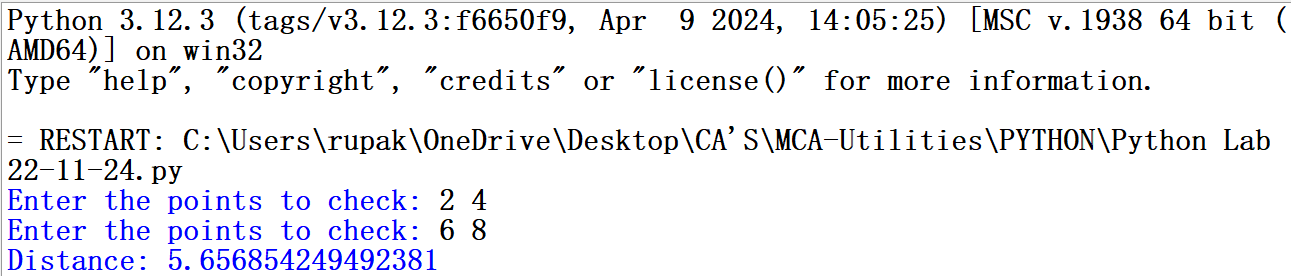
x1,y1= [int(c) for c in input("Enter the points to check: ").split()]

x2,y2= [int(c) for c in input("Enter the points to check: ").split()]

v=math.sqrt((x2-x1)\*\*2 + (y2-y1)\*\*2)

print("Distance:",v)

Output:



**Q.2. Write a python program to calculate area of a triangle using Heron’s f.**

Ans:

import math

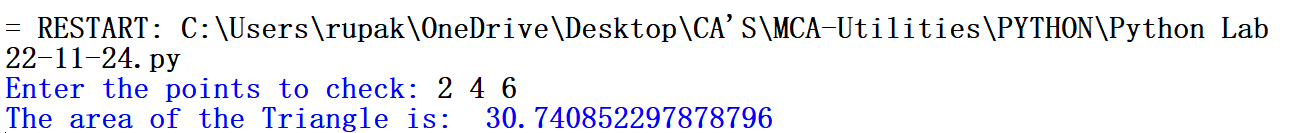
a,b,c= [int(c) for c in input("Enter the points to check: ").split()]

s=a+b+c/2

area=math.sqrt(s\*(s-a)\*(s-b)\*(s-c))

print("The area of the Triangle is: ",area)

Output:



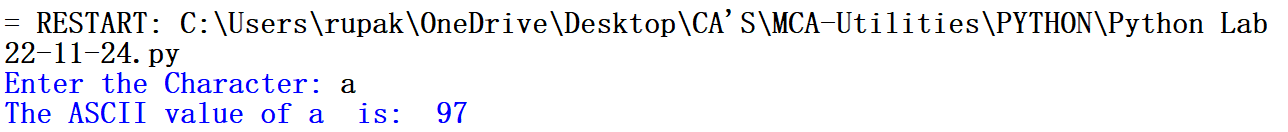
**Q.3. Write a program to print ASCII value of a character.**

Ans:

d=input("Enter the Character: ")

print("The ASCII value of",d," is: ", ord(d))

Output:



**Q.4. Write a python program to read a string in upper case and print it in lower case.**

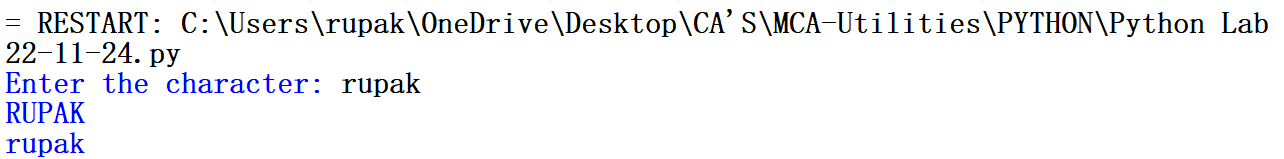
Ans:

a=input("Enter the character: ")

print(a.upper())

print(a.lower())

Output:



**Q.5. Write a python program to find ab using for loop.**

Ans:

a,b=[int(c) for c in input("Enter the numbers: ").split()]

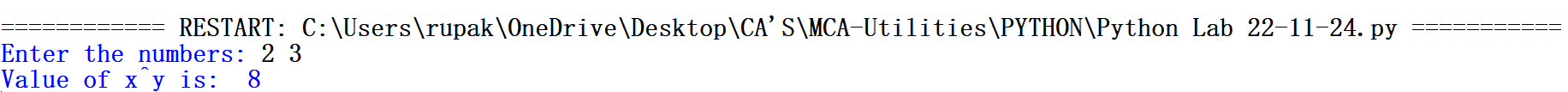
p=1

for i in range(1,b+1):

p=p\*a

print("Value of x^y is: ",p)

Output:



**Q.6. Write a python program to find whether a year is leap or not.**

Ans:

yr = int(input("Enter the year to check: "))

if (yr % 400 == 0) and (yr % 100 == 0):

print("%d is a leap year"%yr)

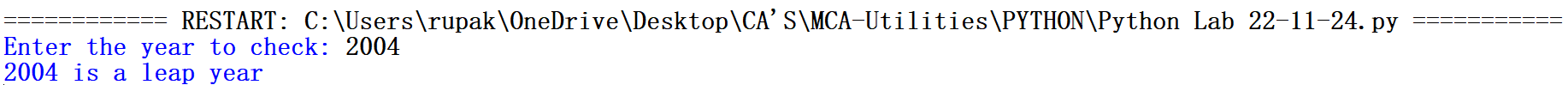
elif (yr % 4 ==0) and (yr % 100 != 0):

print("%d is a leap year"%yr)

else:

print("%d is not a leap year"%yr)

Output:



**Q.7. Write a python program to find the sum of digits of given number.**

Ans:

n=int(input("Enter the number to check: "))

s=0

while(n!=0):

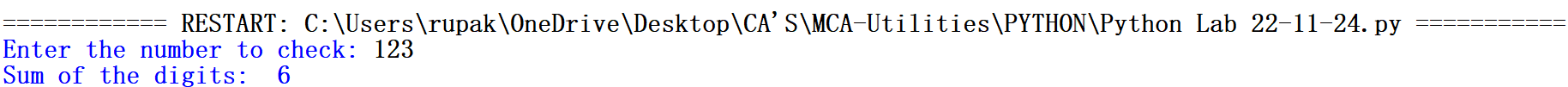
r=n%10

s=s+r

n=n//10

print("Sum of the digits: ",s)

Output:



**Q.8. Write a python program to find Perfect Number.**

Ans:

n=int(input("Enter the number: "))

s=0

for i in range(1,(n-1)):

if(n%i==0):

s=s+i

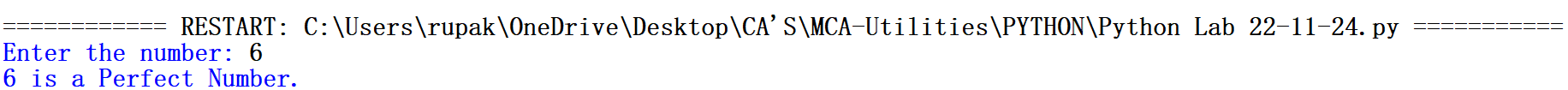
if(s==n):

print("%d is a Perfect Number."%s)

else:

print("%d is not a Perfect Number."%s)

Output:



**Q.9. Write a python program to find whether a number is Even or Odd.**

Ans:

a=int(input("Enter the number to check: "))

if(a%2==0):

print("%d is an Even Number."%a)

else:

print("%d is a Odd Number."%a)

Output:

