**SENIOR SECONDARY**

**M.E.S CENTRAL SCHOOL, TIRUR**

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**COMPUTER SCIENCE**

**LABORATORY RECORD**

**GRADE XII 2023-24**

**SENIOR SECONDARY**

**M.E.S CENTRAL SCHOOL, TIRUR**

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Certified to be the bona fide record of work done by **\_\_\_AMAN\_K\_\_** (Reg. No\_\_\_\_\_\_\_\_\_\_\_\_) of class XII for SSCE-Practical Examination in Computer Science (083), during the year 2023-2024

RENU G.

Teacher-in-charge

Date of Exam:

Examiners:

1.

2.

Principal

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***PROGRAMS IN***

***PYTHON***

**Program 1**

MENU DRIVEN PROGRAM IMPLEMENTING AREA OF SHAPES

**Coding:**

# MENU DRIVEN PROGRAM IMPLEMENTING AREA OF SHAPES

**while True:**

**print("1.Area of circle \n2.Area of rectangle \n3.Area of triangle \n4.Area of Square ")**

**m=int(input("Enter your choice"))**

**if m==1:**

**print("You chose to find area of circle")**

**n1=int(input("Enter Radius:"))**

**ac=3.14\*(n1\*\*2)**

**print("Area=", ac)**

**elif m==2:**

**print("You chose to find area of rectangle")**

**n3=int(input("Enter length:"))**

**n4=int(input("Enter breadth:"))**

**ar=n3\*n4**

**print("Area=",ar)**

**elif m==3:**

**print("You chose to find area of triangle")**

**n5=int(input("Enter Length:"))**

**n6=int(input("Enter height:"))**

**at=0.5\*n5\*n6**

**print("Area=", at)**

**elif m==4:**

**print("You chose to find area of square")**

**n7=int(input("Enter length:"))**

**a=n7\*\*2**

**print("Area=", a)**

**else:**

**print("Invalid operator")**

**c=input("Do you want to continue?, Yes or no?")**

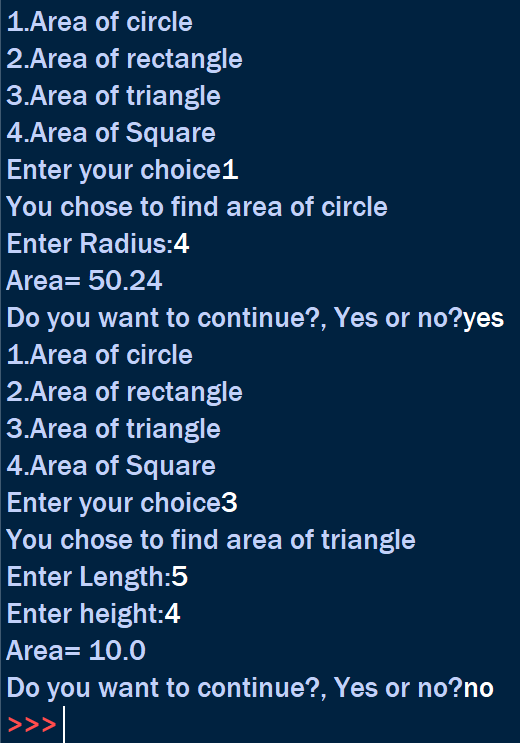
**if c=="yes":**

**pass**

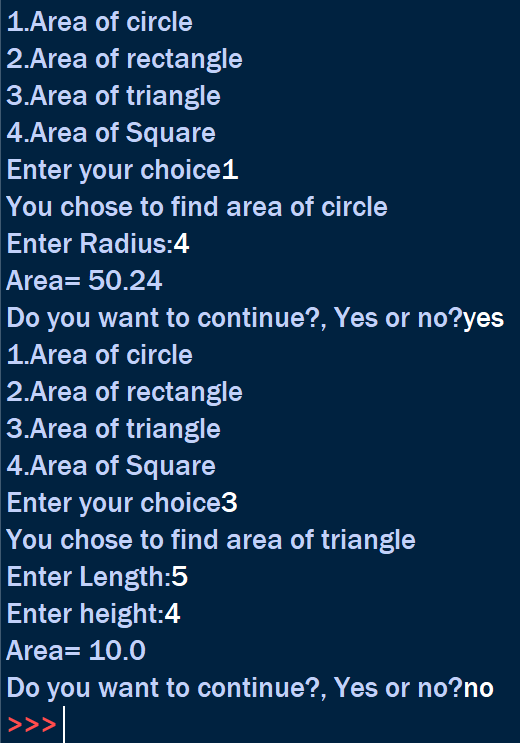
**else:**

**break**

**OUTPUT SCREEN**

****

**Program 2**

****DICTIONARY -INFORMATION OF AN EMPLOYEE(NAME,DESIGNATION,SALARY)

**Coding:**

# DICTIONARY -INFORMATION OF AN EMPLOYEE(NAME,DESIGNATION,SALARY)

**emp = dict()**

**n = int(input("Enter number of entries:"))**

**for i in range(n):**

**name = input("Enter EMPLOYEE name:")**

**slr = float(input("Enter EMPLOYEE salary:"))**

**Dsn = input("Enter EMPLOYEE Designation:")**

**emp[name] = (slr, Dsn)**

**l = emp.keys()**

**print("\nName\t\t\tDesignation\t\t\tSalary")**

**for i in l:**

**print(i,"\t\t\t",emp[i][1],"\t\t\t",emp[i][0])**

**OUTPUT SCREEN**

****

**Program 3**

FACTORIAL OF A NUMBER USING FUNCTION

**Coding:**

# FACTORIAL OF A NUMBER USING FUNCTION

**def fact(num):**

**num=num+1**

**fac=1**

**for i in range(1,num):**

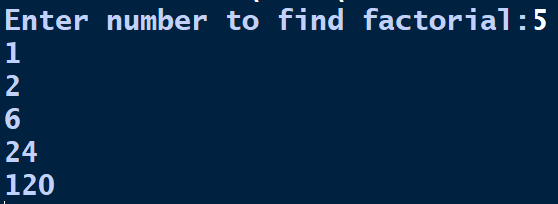
**fac=fac\*i**

**print(fac)**

**i = int(input("Enter number to find factorial:"))**

**fact(i)**

**OUTPUT SCREEN**

****

**Program 4**

TO FIND LARGEST ELEMENT IN A LIST USING FUNCTION

**Coding:**

# TO FIND LARGEST ELEMENT IN A LIST USING FUNCTION

**def inputlist():**

**a=list()**

**l = int(input("LIMIT:"))**

**for i in range(l):**

**item = int(input("ENTER ITEM TO ADD TO LIST:"))**

**a.append(item)**

**return a**

**def maxOfList(l):**

**max = l[0]**

**for i in range(len(l)):**

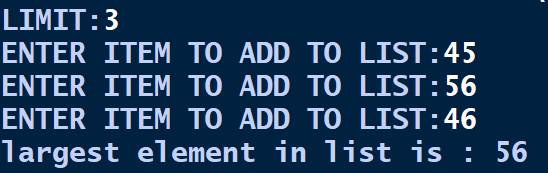
**if l[i]>max:**

**max = l[i]**

**print("largest element in list is :",max)**

**maxOfList(inputlist())**

**OUTPUT SCREEN**

****

**Program 5**

CHECK WHETHER A STRING IS PALINDROME OR NOT USING FUNCTION

**Coding:**

# CHECK WHETHER A STRING IS PALINDROME OR NOT USING FUNCTION

**def pali(word):**

**w = word.upper()**

**if w == w[::-1]:**

**print(word,"is a palindrome")**

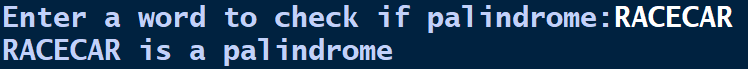
**else:**

**print(word,"is not palindrome")**

**inp = input("Enter a word to check if palindrome:")**

**pali(inp)**

**OUTPUT SCREEN**

****

**Program 6**

TO FIND SUM OF ELEMENTS IN A LIST USING FUNCTION

**Coding:**

# TO FIND SUM OF ELEMENTS IN A LIST USING FUNCTION

**def sum(l):**

**s = 0**

**for i in l:**

**s += i**

**return s**

**ls = list()**

**n = int(input("Enter Limit:"))**

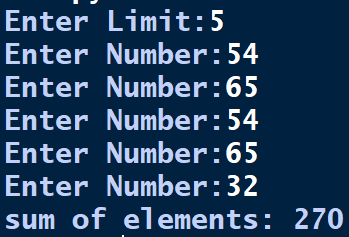
**for i in range(n):**

**item = int(input("Enter Number:"))**

**ls.append(item)**

**print("sum of elements:",sum(ls))**

**OUTPUT SCREEN**

****

**Program 7**

TO PRINT N FIBONACCI SERIES USING FUNCTION

**Coding:**

# TO PRINT N FIBONACCI SERIES USING FUNCTION

**def fibo(n):**

**n1,n2,n3,i=0,1,0,0**

**print("Fibonacci series")**

**while i<n:**

**print(n1)**

**sum=n1+n2**

**n1=n2**

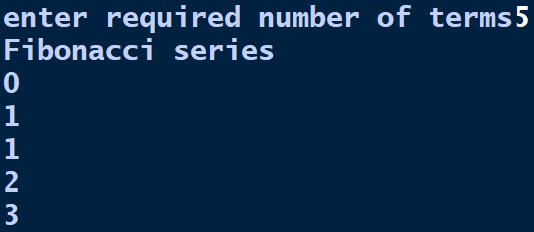
**n2=sum**

**i += 1**

**n=int(input("enter required number of terms"))**

**fibo(n)**

**OUTPUT SCREEN**

****

**Program 8**

***MYSQL***

Teachers

Stock & Dealers

Employee Salgrade

***PYTHON***

***MYSQL***

***CONNECTIVITY***

***PROGRAMS***

**Program 21**

PYTHON -MYSQL CONNECTIVITY PROGRAMS CREATE & INSERT RECORDS INTO TABLE

**Coding:**

# PYTHON -MYSQL CONNECTIVITY PROGRAMS CREATE & INSERT RECORDS INTO TABLE

**OUTPUT SCREEN**