

Experiment No. 2

Aim -A I) WAP to implement basic calculator using funct. Program def add (x, y); return x + 4 def subtract (x,y): return x-y def multiply (x, y): return x * y def divide (x,y): return X/4 print (" select operation!")
print (" I for AU") print ("2 for 5ub") print (" 3 for Multiply") print (" 4 for Divide) while Trye: - choice=liput ("Enter you choice:") If choice in (111, 121, 131, 141): num 1= float linput ("Enter 1st no.:11)) num 2 = Floot Linput ["Enter 2nd no:"] except Value Error:



```
print l'Invalid input. Please enter a no. 1
    continue
   if choice = = '11:
       print(num), (1+11, num 2, 11=11, add(num1, nym2))
   elif choice = = 121:
       print (num 1, 11-11, num 2, 11=11, adsubtract(num 1, num 2)1
   elif choice = = 131;
        point (num 1, " * ", num?, "= ", multiply (num 1, num 21)
     effelif choice = = 141:
         point (num 1, 11/11, num 2, 11 = 11, divide [num 1, num 2]]
     next calculation = input (" lot If you want next calculation or
        if next_rolulation = = (!no!):
        break
       else:
        print("invalle input")
Output => Select operation.
            HAR I for Add
                2 for sub
                3 for Multiply
                4 for Divide
             Enteryour choice: 3
              Enter 1st noi: 15
```

Enter 2nd no.: 14



15.0 *14.0 = 210.0 Let's do next calculation ? (yes/No): No

A2) WAP to find factorial using function Program -

def factorial (x):

if x = = 1:

return!

else:

return (x * factorial (x-1))

for finding it's factorial

rym = int (input 1" Enter a no! : ")

result = factorial (num)

point I'l the factorial of ', num, is "is, result)

Output =) Enter a no. for finding it's factorial:

The factorial of 5 is 120

A 3) WAP to find fibonalli series wing function Program-

def fibo (n):

if n <= 1;

return n

else:

FZ

return (fibo(n-1) + Fibo(n-2))

nterms=intlinput ["Enter a no.: ")



```
if nterns L=0:
          paint [" Enter a positive integer")
          print[11 Fibonalli series: 11]
          for i in range (nterms):
             print (fibo (i))
    Output > Enter a no .:
                Fibonalli Series!
                 2
                  3
A 4) WAP to find lorgest no. in a list using function.
    def my Max (list1):
        max = listIto]
        for x in linst 1:
         wif x > max'.
            max = x
         return max
    list1 = [10, 20, 30, 40, 50]
    point = 1" Largest no. is: ", my Max (list1))
```

Output =>

Largest no. is:50



B) WAP to point employee info (name, age, deportment, salary I using class & object.

Program -

class Employee: def _ - init - - Iself, name, age, dept, salary): · self. name = name self. age = age self. dept = dept self. salory = salory

def info (self):

print (f" The name of employee is { self. name } and age is \$ selfagely. The employee work in deportment & self. dept 3 and salary is & self. salary 31)

el = Employee ("Akosh", 18, 110511, 25000) e2 = Employee ("Sorvesh", 19, 1105", 28000)

e3 = Employee ("Ajay", 20, "Ds", 22000)

e4 = Employee (11 Krishna", 19, 1105", 28000) es = Employee ("Donish", 20," 95", 28000)

es = Employee ("Monish", 20, 1105", 30000)

chinto ()

c2. info()

e3. in+o()

e4. intoll

es. into ()

eG. into()



The employee work in deportment 0s & salary is 25000

The employee work in deportment 0s & salary is 25000

The employee work in deportment 0s & salary is 28000

The employee name is Ajay and age is 20

The employee work in deportment 0s & not salary is 22000

The employee work in deportment 0s & not salary is 22000

The name of employee is Krishna and age is 19

The employee work in deportment 0s and salary is 28000

The name of employee is Danish and age is 20

The employee work in deportment 0s & salary is 28000

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