#full Name

print("KEvin Topiya")

#Branch

print("6BCAB")

i=10;

print(i)

#\*

#\*\*\*

#\*\*\*\*

print(" \*")

print(" \* \*")

print(" \* \*")

print(" \* \*")

print(" \* \*")

print(" \* \*")

print(" \*")

print("\*"\*3);

print(2==2)

print(2==3)

print("\U0001f600")

print("\U0001f601")

print("\U0001f602")

print("\U0001f603")

print("\U0001f604")

print("\U0001f630")

print("\U0001f640")

print("123ab")

print(1,2,12 )

print(1+2+12)

#print("fgdfdfdfdf")

for i in range(10):

print("\* "\*i)

for i in range(10):

print("\U0001f630"\*i)

**#18/12/23**

**write a script enter 2 no and perform bodmas(+-\*/) operation**

x=int(input("Enter X:"))

y=int(input("Enter Y:"))

print("additon",(x+y))

print("subtraction",(x-y))

print("multiplication",(x\*y))

print("Division",(x/y))

**- WAPC TO enter name dynamic and print it**

x=input("Name: ")

print(x)

**- waps to take cm from user and convert into inches**

x=int(input("Enter CM:"))

print("inches: %.2f"%(x/2.54))

**- reverse you need to take inches to cm**

x=int(input("Enter Inch:"))

print("CM: %.2f"%(x\*2.54))

**- dozen to pieces & pices to dozen**

x=int(input("Enter Dozen:"))

print(x\*12,"Pices")

y=int(input("Entre Pices:"))

print(y/12,"Dozen")

**- demonstrate all datatype in one single program**

x = "Hello World"

print(x," = ",type(x))

x = 20

print(x," = ",type(x))

x = 20.5

print(x," = ",type(x))

x = 1j

print(x," = ",type(x))

x = ["apple", "banana", "cherry"]

print(x," = ",type(x))

x = ("apple", "banana", "cherry")

print(x," = ",type(x))

x = range(6)

print(x," = ",type(x))

x = {"name" : "John", "age" : 36}

print(x," = ",type(x))

x = {"apple", "banana", "cherry"}

print(x," = ",type(x))

x = frozenset({"apple", "banana", "cherry"})

print(x," = ",type(x))

x = True

print(x," = ",type(x))

x = b"Hello"

print(x," = ",type(x))

x = bytearray(5)

print(x," = ",type(x))

x = memoryview(bytes(5))

print(x," = ",type(x))

x = None

print(x," = ",type(x))

**-ALL arithmetic operators**

x = int(input('Enter First number: '))

y = int(input('Enter Second number '))

add = x + y

dif = x - y

mul = x \* y

div = x / y

floor\_div = x // y

power = x \*\* y

modulus = x % y

print('Sum:',add)

print('Difference:',dif)

print('Product :',mul)

print('Division :',div)

print('Floor Division :',floor\_div)

print('Exponent :',power)

print('Modulus :',modulus)

**-all operation in python**

a = 32

b = 6

print("arithmetic operation ---------")

print('Addition of two numbers:',a+b)

print('Subtraction of two numbers:',a-b)

print('Multiplication of two numbers:',a\*b)

print('Division of two numbers:',a/b)

print('Reminder of two numbers:',a%b)

print('Exponent of two numbers:',a\*\*b)

print('Floor division of two numbers:',a//b)

print("\nComparison oprtator----")

print('Two numbers are equal or not:',a==b)

print('Two numbers are not equal or not:',a!=b)

print('a is less than or equal to b:',a<=b)

print('a is greater than or equal to b:',a>=b)

print('a is greater b:',a>b)

print('a is less than b:',a<b)

print("\nAssignment Operators------- ")

a = 32

b = 6

print('a=b:', a==b)

print('a+=b:', a+b)

print('a-=b:', a-b)

print('a\*=b:', a\*b)

print('a%=b:', a%b)

print('a\*\*=b:', a\*\*b)

print('a//=b:', a//b)

print("\nBitwise Operators------- ")

a = 32

b = 6

print('a&b:', a&b)

print('a|b:', a|b)

print('a^b:', a^b)

print('~a:', ~a)

print('a<<b:', a<<b)

print('a>>b:', a>>b)

print("\nLogical Operators------- ")

a = 5

print('Is this statement true?:',a > 3 and a < 5)

print('Any one statement is true?:',a > 3 or a < 5)

print('Each statement is true then return False and vice-versa:',(not(a > 3 and a < 5)))

print("Membership Operators----------")

x = ["Rose", "Lotus"]

print(' Is value Present?', "Rose" in x)

print(' Is value not Present?', "Ri" not in x)

print("Identity Operators----------")

a = ["Rose", "Lotus"]

b = ["Rose", "Lotus"]

c = a

print(a is c)

print(a is not c)

print(a is b)

print(a is not b)

print(a == b)

print(a != b)

**#19/12/2023**

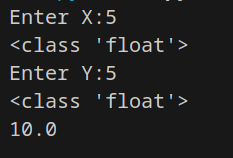
x=float(input("Enter X:"))

print(type(x))

y=float(input("Enter Y:"))

print(type(y))

print(x+y)



x=input("Enter x:")

y=input("Enter Y:")

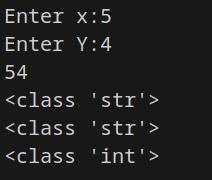
c=int(x+y)

print(c)

print(type(x))

print(type(y))

print(type(c))



**#20/12/2023**

**was to demonstrate either int or string and perform arithmetic operation**

x=int(input("Enter x:"))

y=int(input("Enter y:"))

print("x+y=",x+y)

print("x-y=",x-y)

print("x\*y=",x\*y)

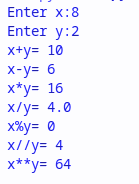
print("x/y=",x/y)

print("x%y=",x%y)

print("x//y=",x//y)

print("x\*\*y=",x\*\*y)

Op:



**Perform all the operator**

x=8

print("x=",x)

y=4

print("y=",y)

print("x==y",x==y)

print("x>y",x>y)

print("x<y",x<y)

print("x!=y",x!=y)

print("x>=y",x>=y)

print("x<=y",x<=y)

print("\n ")

a = True

print("a=",a)

b = False

print("b=",b)

print(a and b)

print(a or b)

print(not a)

print("\n")

a = 10

print("a=",a)

b = 4

print("b=",b)

print(a & b)

print(a | b)

print(~a)

print(a ^ b)

print(a >> 2)

print(a << 2)

print("\n")

a = 10

b = a

print(b)

b += a

print(b)

b -= a

print(b)

b \*= a

print(b)

b <<= a

print(b)

print("\n")

a = 10

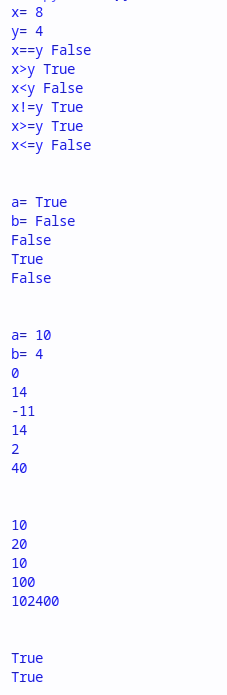
b = 20

c = a

print(a is not b)

print(a is c)

Op:



**use string data type and print roll no,enrollment,full name,dob,address,city,state,country inside border with \***

print("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*")

print("\* Roll No: 35 \*")

print("\* EnrollMentNo: 21fotca11129 \*")

print("\* Name: KEvin Topiya \*")

print("\* DOB: 1/1/2004 \*")

print("\* Address: lakheshwar soc,rajkot \*")

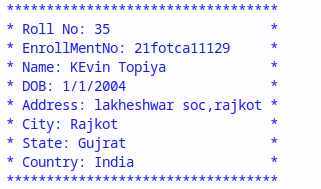
print("\* City: Rajkot \*")

print("\* State: Gujrat \*")

print("\* Country: India \*")

print("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*")

**Op:**

****

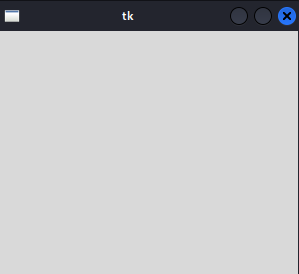
**8/1/2024:**

from tkinter import \*;

f=Tk();

f.geometry("300x300");

f.mainloop();

**Op:** 

from tkinter import \*;

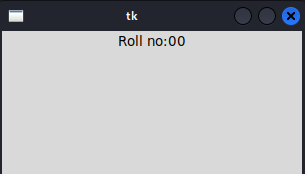
f=Tk();

f.geometry("300x300");

rn=Label(f,text="Roll no:00");

rn.pack();

f.mainloop();



from tkinter import \*

f=Tk()

fn=Label(f,fg="red",text="First Name").grid(column=0);

fn=Label(f,fg="red",text="Last Name").grid(column=0);

fn=Label(f,fg="red",text="Address").grid(column=0);

fn=Label(f,fg="red",text="Email").grid(column=0);

fn=Label(f,fg="red",text="Phone").grid(column=0);

fnm=Entry(f,bg="skyblue").grid(row=0,column=1);

lnm=Entry(f,bg="skyblue").grid(row=1,column=1);

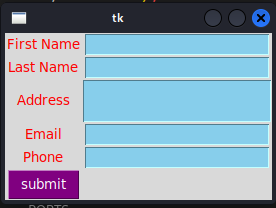
a=Text(f,bg="skyblue",height=2,width=23).grid(row=2,column=1);

lnm=Entry(f,bg="skyblue").grid(row=3,column=1);

lnm=Entry(f,bg="skyblue").grid(row=4,column=1);

sub=Button(f,text="submit",fg="white",bg="purple").grid(row=5);

mainloop();



**15/1/2024**

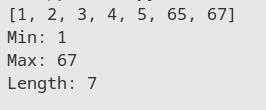
x=[1,2,3,4,5,65,67]

print(x);

print("Min:",min(x))

print("Max:",max(x))

print("Length:",len(x))

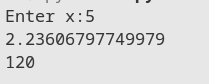


import math

x=int(input("Enter x:"));

print(math.sqrt(x));

print(math.factorial(x));



import math

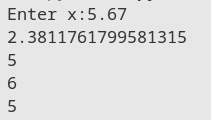
x=float(input("Enter x:"));

print(math.sqrt(x));

print(math.floor(x));

print(math.ceil(x));

print(math.trunc(x));



import math

x=5;

print(math.pow(x,3));

x=-5;

print(abs(x));



import math

x=5;

print(math.pow(x,3));

x=-5.567;

print(abs(x));

print(round(x));



x="LAY X SAMZ"

print("count:",len(x));

print("min:",min(x));

print("max:",max(x));

print("-------")

x="LAYXSAMZ"

print("count:",len(x));

print("min:",min(x));

print("max:",max(x));

print("-------")

x="laxXsamZ"

print("count:",len(x));

print("min:",min(x));

print("max:",max(x));

print("-------")

x="LAYxSaMz"

print("count:",len(x));

print("min:",min(x));

print("max:",max(x));

print("-------")

x="LAY\*x\_SAMz"

print("count:",len(x));

print("min:",min(x));

print("max:",max(x));

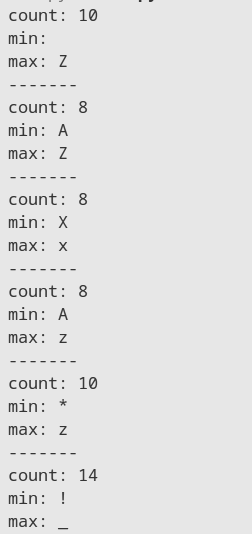
print("-------")

x="!^@#$%&()\_\*/-+"

print("count:",len(x));

print("min:",min(x));

print("max:",max(x));



x="Rk university"

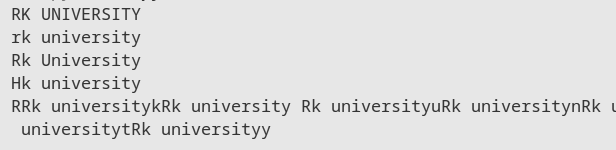
print(x.upper());

print(x.lower());

print(x.title());

print(x.replace('R','H'));

print(x.join(x));



#take 8 number in form of list find :min max len

# use backword and forward method to print ,take input from user and find factorial

# take string as input and perform all string operation (minimum 7 operation)

# use pakeg math and take userinput and perform all operation

# print 3 unicode in list and find min and max

#use comparison operaotr and perform the o/p

**#23/1/2024**

x=[1,2,3,4,{2,4,455},(345,345,345,345),[456,4564567,455]]

y=(1,2,3,{1224,345},[345,345],(345,3453))

z={1,2,3,(3,545)}

print(x)

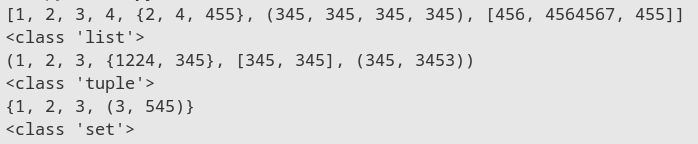
print(type (x))

print(y)

print(type (y))

print(z)

print(type (z))



x=[12,21,0,1,6,7]

print(x)

x=[12,21,0,1,6,7]

x.insert(3,19)

print("Q1 :insert 19 after 0",x);

x=[12,21,0,1,6,7]

x.append(-3);

print("Q2: append -3",x);

x=[12,21,0,1,6,7]

x.remove(0)

print("Q3: remove 0",x)

x=[12,21,0,1,6,7]

x.sort();

print("Q4: arrenge in asc order",x);

x=[12,21,0,1,6,7]

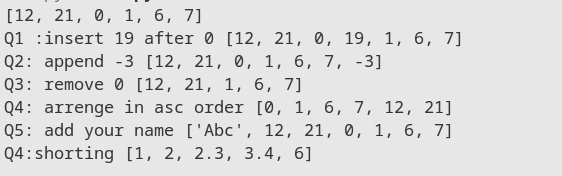
x.insert(0,"Abc")

print("Q5: add your name",x)

x=[1,2,3.4,6,2.3]

x.sort();

print("Q4:shorting",x);



x=(2,4,5,5,5,"dfgdf",5,6)

print(x.count(5))

print(x.index(4))



x={4,5,4,5,4,5,3534,46645,64}

x.pop();

print(x);

x={4,5,5,5,3534,46645,64}

x.add(3)

x.add(677)

x.add(-677)

x.add("abcdefghijklmnopqrstuvwxyz")

x.pop();

print(x);

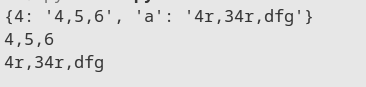


x={4:"4,5,6",'a':"4r,34r,dfg"}

print(x)

print(x[4])

print(x['a'])



rollno={12,34,74,90}

rollno.add(13)

rollno.add(13)

print("Q1 add dupliocate value 13: ",rollno)

rollno={12,34,74,90}

print("Q2 arrange: ",sorted(rollno))

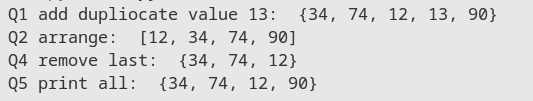
rollno={12,34,74,90}

rollno.remove(90)

print("Q4 remove last: ",rollno)

rollno={12,34,74,90}

print("Q5 print all: ",rollno)



**#24/1/24(nb)**

x=int(input())

if x%2==0:

print("x is even")

else:

print("x is odd")

"""

x,y,z=int(input()),int(input()),int(input())

if x>y:

f=x

else:

f=y

if z>f:

f=z

print("Maximam value is : ",f)

"""

"""

print("1:Tea\n2:coffee\n3:bornvita\n")

x=int(input("Enter the Item No from The Menu: "))

if x==1:

print("Hear is your Tea, Enjoy it")

elif x==2:

print("Hear is your Coffee, Enjoy it")

elif x==3:

print("Hear is your Bornvita, Enjoy it")

else:

print("Please Choose item from The Menu:")

"""

rn=input("Enter Roll No:")

nm=input("Enter Name:")

br=input("Enter Branch:")

sm=input("Enter Semester:")

s1=int(input("Enter Marks Of Subject 1: "))

s2=int(input("Enter Marks Of Subject 2: "))

s3=int(input("Enter Marks Of Subject 3: "))

s4=int(input("Enter Marks Of Subject 4: "))

s5=int(input("Enter Marks Of Subject 5: "))

print("Result:\nRoll No:",rn,"\nName:",nm,"\nBramch:",br,"\nSemaster:",sm,"\n")

pr=(s1+s2+s3+s4+s5)/5

print("Persentage:",pr)

if pr>90:

print("Extra ordanry")

elif pr>80 and pr<=90:

print("Excelent")

elif pr>70 and pr<=80 :

print("Very Good")

elif pr>60 and pr<=70 :

print("Good Performance")

elif pr>50 and pr<=60 :

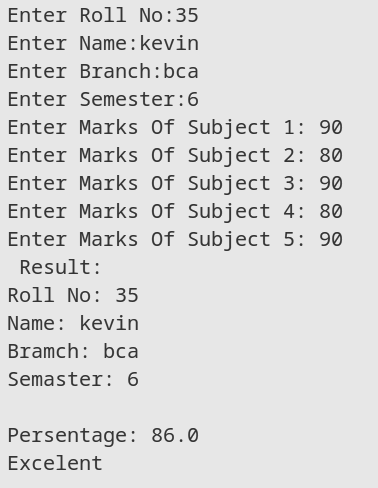
print("Avarage Performance")

elif pr>40 and pr<=50 :

print("Below Average")

else:

print("Not Promoted - need improvements")



#0-50: 5$

#51-100:10$

#100<:20$

u=int(input("Enter units : ")) # Enter unit

if u<=50:

print("Bill1:",u\*5)

elif u>50 and u<=100:

y=50\*5

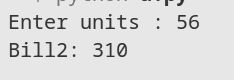
x=u-50

print("Bill2:",(x\*10)+y)

else:

x=u-100

print("Bill3:",(50\*5)+(50\*100)+(x\*20))



x=1

while x<=50:

if x%2==0:

print("%02d"%x,"")

x+=1

"""

x=1

while x<=50:

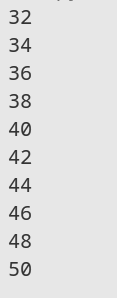
x+=1

if x<=30:

continue

if x%2==0:

print(x)



f=0

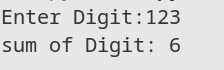
x=int(input("Enter Digit:"))

while x!=0:

f+=x%10;

x=x//10;

print("sum of Digit:",f)



f=0;

x=int(input("Enter Digit:"))

while x!=0:

f=(f\*10)+(x%10)

x=x//10

print("reverse:",f)



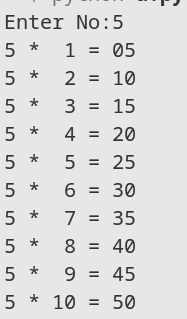
x=int(input("Enter No:"))

i=1

while i<=10:

print(x,"\*","%2d"%i,"=","%02d"%(x\*i))

i+=1



**#29/1/2024**

**leap year**

def leap(x):

print("leap year") if x%4==0 else print("not leap year")

i=int(input("enter year:"))

leap(i)



**#fibonacci**

def fibo(z):

i=0;y=1;

while i<=z:

print(i)

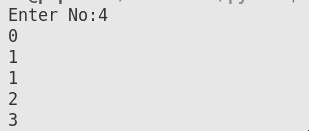
x=y

y=i

i=x+y

x=int(input("Enter No:"))

fibo(x)



**#prime or not**

def prm(z):

i,c=2,0

while i<=(z/2):

if z%i==0:

c+=1;

break

else:

i+=1

print("Prime") if c==0 else print("not prime")

x=int(input("Enter No:"))

prm(x)



**#pelindrom with string and number also**

def peldint(x):

y,z=x,0;

while x!=0:

z=(z\*10)+(x%10)

x//=10

print("palindrome") if z==y else print("not palindrome")

def peldstr(x):

y=x[::-1]

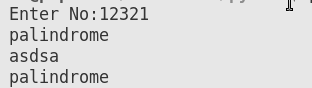
print("palindrome ") if y==x else print("not palindrome")

x=int(input("Enter No:"))

peldint(x)

x=input()

peldstr(x)



**#it is int or float**

def chktyp(x):

print("int") if type(x)==int else print("float")

chktyp(5)

chktyp(5.6)



x,y,z=int(input()),int(input()),int(input())

def min\_max(x,y,z):

min,max=0,0;

if x>y:

max=x

min=y

else:

max=y

min=x

if max<z:

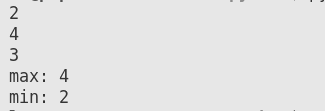
max=z

if min>z:

min=z

print("max:",max,"\nmin:",min)

min\_max(x,y,z)



**# factorial**

def fact(x):

ans,i=1,2;

while i<=x:

ans\*=i;

i+=1;

return ans

x=int(input("Enter No:"))

print(fact(x))



**# string reverse**

def strrev(x):

print(x[::-1])

x=input("Enter String: ")

strrev(x)

****

**# string space count**

def spccont(x):

z=len(x)

i=0

c=0;

while i<z :

if(x[i]==' '):

c+=1;

i+=1;

return c

x=input()

print("Spaces are: ",spccont(x))



**#21/2/2024**

x=0

y=1;

while x<=15:

print(x)

z=x+y

x=y;

y=z;

**#check prime or not**

**"""**

**x=int(input())**

**i=2;c=0**

**while i<=(x/2):**

**if x%i==0:**

**c=2**

**break**

**i+=1**

**if c==2:**

**print("Not prime")**

**else:**

**print("prime")**

**"""**

**#forloop**

**"""**

**myMark=[72,56,85,94,44,54,85,65,25,35]**

**sum=0**

**for i in myMark:**

**sum=sum+i**

**print("Avarage",sum//len(myMark))**

**"""**

**#for with range**

**"""**

**for i in range(2,17,2):**

**print(i,end=" ")**

**"""**

**#factorial of even using for**

**"""**

**x=int(input())**

**f=1**

**for i in range(2,x+1):**

**f\*=i**

**print("factorial : ",f)**

**"""**

**#nested loop**

**"""**

**x=0**

**for i in range(1,6):**

**x+=1**

**for j in range(1,6):**

**x+=1**

**print(j,end=" ")**

**print()**

**print("\n",x)**

**"""**

**#string functions**

**"""**

**str1="Hello45World"**

**print("String : ",str1)**

**print("Length of String:",len(str1))**

**print("first word in Capital: ",str1.capitalize())**

**print("count of l in string:",str1.count("l"))**

**print("is alpha-numeric: ",str1.isalnum())**

**print("is all char are alphadtic: ",str1.isalpha())**

**print("is decimal: ",str1.isdecimal())**

**print("is deigit: ",str1.isdigit())**

**print("in lowercase : ",str1.lower())**

**print("is uppercase :",str1.isupper())**

**print("is in titlecase means forst letter of word in uppercase : ",str1.istitle())**

**print("in lower : ",str1.lower())**

**print("in upper : ",str1.upper())**

**print("in title : ",str1.title())**

**print("in swapcase : ",str1.swapcase())**

**print("replace : ",str1.replace("World","Chitiyas"))**

**"""**

**#check how many alpha and num in string**

**"""**

**str="hello - 7u0k4"**

**print(str)**

**a=d=0**

**for i in str:**

**if i.isalpha():**

**a+=1**

**if i.isdigit():**

**d+=1**

**print(a," Characters and ",d," numbers")**

**"""**

**#pswerd set validation**

**pwd=input("Enter Password: ")**

**sp=['!','@','#','$','%','&','^','\*','(',')']**

**u=l=d=s=False**

**if len(pwd)>=8:**

**for i in pwd:**

**if i.isupper():**

**u=True**

**if i.islower():**

**l=True**

**if i.isdigit:**

**d=True**

**if i in sp:**

**s=True**

**if(u==True and d==True and l==True and s==True):**

**print("Pasaword Set")**

**else:**

**print("Password not set")**

**#4/3/2024:**

**#define class**

**"""**

**class abc:**

**x=5**

**a=abc();**

**print(a.x)**

**"""**

**"""**

**class xyz:**

**x=input("Enter Name");**

**print("Name",x)**

**a=xyz();**

**"""**

**#Metho of class**

**"""**

**class stud:**

**roll\_No=int(input("Enter Roll no: "))**

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

**Age=int(input("Enter Age"))**

**print("Roll No",roll\_No,"\nName:",name,"\nAge:",Age)**

**x=stud();**

**"""**

**#calc**

**"""**

**class calc:**

**def add(self):**

**x=int(input())**

**y=int(input())**

**print(x+y)**

**def sub(self):**

**x=int(input())**

**y=int(input())**

**print(x-y)**

**def mul(self):**

**x=int(input())**

**y=int(input())**

**print(x\*y)**

**def div(self):**

**x=int(input())**

**y=int(input())**

**print(x//y)**

**z=calc()**

**z.add()**

**z.sub()**

**z.mul()**

**z.div()**

**"""**

**# reverse string**

**# SI**

**# fibonaci**

**# factorial**

**# palindrome**

**# armstrong**

**# pattern in character**

**# sort 10 no and count**

**class ke:**

**def rev(self):**

**x=input("Enter String: ")**

**print(x[::-1])**

**def si(self):**

**p=int(input("Enter P: "))**

**r=int(input("Enter r: "))**

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

**print("SI=",(p\*r\*n)/100)**

**def fibonaci(self):**

**x=0**

**y=1**

**while x<=20:**

**print(x)**

**z=x+y**

**x=y**

**y=z**

**def fact(self):**

**x=int(input("Enter No for Factorial: "))**

**ans=1**

**for i in range(x,1,-1):**

**ans\*=i**

**print("factorial: ",ans)**

**def palindrome(self):**

**x=input("Enter palindrom string: ")**

**y=x[::-1]**

**if(x==y):**

**print("plaindrome")**

**else:**

**print("not palindrome")**

**def armstrong(self):**

**x=int(input("Enter NO FOR ARMSTONG: "))**

**y=x**

**arm=0**

**while x!=0:**

**arm+=(x%10)\*\*3**

**x=x//10**

**if(arm==y):**

**print("armstrong")**

**else:**

**print("not armstrong")**

**def patt(self):**

**x=["A","B","C","D","E"]**

**for i in range(0,5):**

**for j in range(0,i+1):**

**print(x[j],end=" ")**

**print()**

**def sorT(self):**

**x=[4,5,3,6,6,7,7,7,1,2]**

**print("x=",x)**

**print("sort",sorted(x))**

**print("count 7 :",x.count(7),"times")**

**d=ke()**

**d.rev()**

**d.si()**

**d.fibonaci()**

**d.fact()**

**d.palindrome()**

**d.armstrong()**

**d.patt()**

**d.sorT()**

**#exception handling :**

**x=10**

**y=0**

**try:**

**print(x/y)**

**except SyntaxError:**

**print("Error")**

**except:**

**print("sd")**

**finally:**

**print("success")**

****

**x = 5**

**y = "hello"**

**try:**

**z = x + y**

**except TypeError:**

**print("Error: cannot add an int and a str")**

****

**def fun(a):**

**if a < 4:**

**b = a/(a-3)**

**print("Value of b = ", b)**

**try:**

**fun(3)**

**fun(5)**

**except ZeroDivisionError:**

**print("ZeroDivisionError Occurred and Handled")**

**except NameError:**

**print("NameError Occurred and Handled")**

****

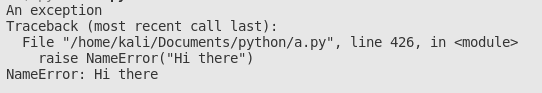
**try:**

**raise NameError("Hi there")**

**except NameError:**

**print ("An exception")**

**raise**

****

**try:**

**my\_list = [1, 2, 3]**

**print(my\_list[4])**

**except IndexError:**

**print("Index out of range!")**

****

**try:**

**num = int("abc")**

**except ValueError:**

**print("Invalid value!")**

****

**try:**

**num\_list = [1, 2, 3]**

**num\_list.append(4)**

**print(num\_list.nonexistent\_method())**

**except AttributeError:**

**print("Attribute not found!")**

****

**try:**

**my\_dict = {"a": 1, "b": 2}**

**print(my\_dict["c"])**

**except KeyError:**

**print("Key not found!")**

****