2/2/2019

**27/01 Assignments Revision**

**# Pallindrom of number(using reverse number logic)**

#!/usr/bin/python

def ReverseNumber(no)

rem=0

rev=0

while no!=0 :

rem=no%10

rev=rev\*10+rem

no=int(no//10)

return rev

**#Arithmatic menu driven**

#!/usr/bin/python

def Menu():

while True:

print("1.Add\n2.Sub\n3.Mul\n4.Div\n5.Exit)

choice=input("Enter your choice")

if(choice>0 && choice<6):

return choice

def ArithmaticOperations():

choice=0

while(choice!=5):

choice=Menu()

number1=input("Enter first Number :")

number2=input("Enter second Number :")

if(choice==1)

addition=number1+number2

return addition

elif(choice==2)

sub=number1-number2

return sub

elif(choice==3)

multiply=number1\*number2

return multiply

elif(choice==4)

divide=number1/number2

return divide

**#Star Pattern**

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#!/usr/bin/python

def starPattern():

i=0;

rows=0;

rows=input("Enter number of rows")

for i in range(-1,rows+1):

print '\*'\*i

if \_\_name\_\_=='\_\_main\_\_':

starPattern()

**#Reverse Star Pattern**

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#!/usr/bin/python

def Pattern2(n):

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

for \_ in range(1,n-i+1):

print ' ',

for \_ in range(1,i+1):

print '\*',

print

if \_\_name\_\_=='\_\_main\_\_':

n=input("Enter number of rows")

Pattern2(n)

**#Star pattern Pyramid**

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#!/usr/bin/python

def pattern3(n):

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

for \_ in range(1,n-i+1):

print ' ',

for \_ in range(1,i\*2):

print '\*',

print

if \_\_name\_\_=='\_\_main\_\_':

n=input("Enter number of rows")

pattern3(n)

**#Number pattern**

**1**

**2 1 2**

**3 2 1 2 3**

**4 3 2 1 2 3 4**

**5 4 3 2 1 2 3 4 5**

def numberPattern(n):

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

for \_ in range(1,n-i+1):

print ' ',

s=i

for j in range(1,i\*2):

print s,

if j<i:

s=s-1

else:

s=s+1

print

if \_\_name\_\_=='\_\_main\_\_':

n=input("Enter number of rows : ")

numberPattern(n)

**#Fibbonacci seriese e.g. 1 1 2 3 5 8 13 21**

def fibbonacci(n):

i=j=1

print i

print j

n-=2

while(n!=0):

k=i+j

print k

i=j

j=k

n-=1

if \_\_name\_\_=='\_\_main\_\_':

n=input("Enter limit")

fibbonacci(n)

**Assignments**

**Write programs for following design patterns**

1.

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2.

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3.

A

B A B

C B A B C

D C B A B C D

4.

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5.

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6. Write a program to print fibbonacci seriese till end which starts with 1. Provide upper bound as input.