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PF Task
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Q1:
Code:
# this programs gives us the factorials of the given number
fact = 1
i = 1
num = int(input('enter number: '))
while num > 1:
  fact = fact * num
  num -= 1
print(fact, "is the factorial")
output:
enter number: 5
120 is the factorial *
Q2:
Code:
# this programs calculate the table of a given number
number = int(input("enter number: "))
n = 1
while n<=10:
  print(number," * ", n , " = ",number*n)
  n+=1
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output:
 enter number: 4
                 28
         8 = 32
                 36
Q3:
# this programe simple mathmathical operations for us
num = int(input('enter a number: '))
num2 = int(input('enter second number: '))
operator = int(input('press 1 for add / press 2 for sub / press 3 for mult / press 4 for div:'))
check = input("you want to continue 'Y/N':")
check = check.upper()
while check !="N":
  if check =="Y":
    if operator == 1:
      print('sum of ',num, 'and', num2,'is:',num + num2)
    elif operator == 2:
      print('subtraction of ',num ,'and', num2,'is:',num - num2)
    elif operator == 3:
      print('product of ',num ,'and', num2,'is:',num * num2)
    elif operator == 4:
      print('division of ',num, 'and', num2,'is:',num / num2)
    else:
       print('press correct number')
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print('Enter valid condition')
  check = input("you want to continue 'Y/N':")
  check = check.upper()
  num = int(input('enter a number: '))
  num2 = int(input('enter second number: '))
  operator = int(input('press 1 for add / press 2 for sub / press 3 for mult / press 4 for div:'))
output:
enter a number: 4
enter second number: 5
press 1 for add / press 2 for sub / press 3 for mult / press 4 for div:2
you want to continue 'Y/N':y
subtraction of 4 and 5 is: -1
you want to continue 'Y/N':2
enter a number: 3
enter second number: 4
press 1 for add / press 2 for sub / press 3 for mult / press 4 for div:2
Enter valid condition
you want to continue 'Y/N':
Q4:
# this program find the lcm of given two number
num1 = int(input("enter first number"))
num2 = int(input("enter second number"))
n = 1
while True: #run until this becomes false
  if (n%num1==0) and (n%num2==0):
    print("LCM of",num1, "and", num2, "is:",n)
    break
  else:
    n+=1
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else:

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output:
enter first number5
 enter second number4
LCM of 5 and 4 is: 20
Q4
Code:
num1 = int(input("enter first number"))
num2 = int(input("enter second number"))
def hcf(c,d):
 Min = min(num1,num2)
 Max = max(num1,num2)
 while True:
    if Max%Min == 0:
     a = Min
     break
    a = Max%Min
    Max = Min
    Min = a
  return a
total = hcf(num1,num2)
print('hcf of ',num1,'and',num2,'is: ', total)
Output:
enter first number4
enter second number5
hcf of 4 and 5 is: 1
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