1. Armstrong number:

num = int(input("Enter a number: ‘)

sum = 0

temp = num

while temp > 0

digit = temp % 10

sum += digit \* len(str(num))

temp //= 10

if sum == num

print(‘num, "is an Armstrong number")

else

print(num, "is not an Armstrong number")

1. factorial

def factorial(n):

if n = 0 or n = 1:

return 1

else:

return n \* factorial(n -- 1)

num = int(input("Enter a number: ")):

if num < 0

print("Factorial is not defined for negative numbers.")

else:

print(f"The factorial of {num} is {factorial(num)}")

3. sum of first n natural numbers

num = int(input(‘Enter a number: "))

if number < 0

print("Negative numbers are not allowed")

else:

sum = 0

i = number

while(i > 0):

sum += i :

i -= 1

print(f"sum of first {num} natural number is",sum)

4.multiplication table:

num = input ("Enter a number for the multiplication table: ")

print (num, "Tables\n") :

for i in range(1, 11)

print (num, x, i, '=', num \* i)