**1. Write a Python program to find those numbers which are divisible by 7**

**and multiple of 5, between 1500 and 2700 (both included).**

**Code :**

final=[]

for x in range(1500, 2700):

if (x%7 == 0) and (x%5 ==0):

final.append(x)

print(final)

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**2. Python program to add two numbers**

**Code :**

a=int(input("Value of a : "))

b=int(input("Value of b : "))

final = a + b

print(final)

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**3. Maximum of two numbers in Python**

**Code :**

a=int(input("Value of a : "))

b=int(input("Value of b : "))

if a>b:

print("a is maximum")

else:

print("b is maximum")

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**4. Python Program for factorial of a number**

**Code :**

n=int(input("Value of n is : "))

def factorial(n):

if (n==0) or (n==1):

return 1

else:

return n\*factorial(n-1)

print(factorial(n))

**5. Python Program for simple interest**

**Code :**

principal = int(input("The principal amount is : "))

rate = int(input("The rate per annum is : "))

years = int(input("The interest for a number of years is : "))

interest = (principal\*rate\*years)/100

total\_amount= principal + interest

print(interest)

print(total\_amount)

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**6. Python Program for compound interest**

**Code :**

principal = int(input("The principal amount is : "))

rate = int(input("The rate per annum is : "))

years = int(input("The interest for a number of years is : "))

total\_amount = principal\* (1+ (rate/100))\*\*years

interest= total\_amount - principal

print(int(interest))

print(int(total\_amount))

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**7. Python Program to check Armstrong Number**

**Code :**

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

sum = 0

temp = num

while temp > 0:

digit = temp % 10

sum += digit \*\* 3

temp //= 10

if num == sum:

print(num,"is an Armstrong number")

else:

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

**8. Python Program to find area of a circle**

**Code :**

radius=int(input("Enter the radius of circle : "))

pie= 3.1416

area\_of\_circle= pie\*(radius\*\*2)

print(area\_of\_circle)

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**9. Python program to print all Prime numbers in an Interval**

**Code :**

lower=int(input("Enter the lower number : "))

upper=int(input("Enter the upper number : "))

print("The prime numbers given in this interval are : ")

for num in range(lower, upper+1):

if num>1:

for i in range(2, num-1):

if (num%i ==0):

break

else:

print(num)

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**10. Python program to check whether a number is Prime or not**

**Code :**

number=int(input("Enter the number : "))

if number>1:

for i in range(2, number-1):

if (number%i==0):

print("Number is not prime")

break

else:

print("Number is prime")