1. Write a Python program to find those numbers which are divisible by 7 and multiple of 5, between 1500 and 2700 (both included). def find_numbers(lower_bound, upper_bound):

```
results=[]
for i in range(lower_bound,upper_bound):
    if (i % 7 == 0 and i % 5 !=0):
        results.append(i)
    return results

lower_bound = int( input("Lower bound to search for numbers: ") )
    upper_bound = int( input("Upper bound to search for numbers: ") )

found_numbers = find_numbers(lower_bound, upper_bound)

print("The numbers that are divisible by 7 but not by 5
    are:\n{}".format(found_numbers))
```

2. Python program to add two numbers

```
num1 = 1.5
num2 = 6.3

# Add two numbers
sum = num1 + num2

# Display the sum
print('The sum of {0} and {1} is {2}'.format(num1, num2, sum))
```

3. Maximum of two numbers in Python

```
if a >= b:
return a
else:
```

def maximum(a, b):

```
# Driver code
a = 2
b = 4
print(maximum(a, b))
```

4. Python Program for factorial of a number

```
num = int(input("Enter a number: "))
factorial = 1
if num < 0:
    print(" Factorial does not exist for negative numbers")
elif num == 0:
    print("The factorial of 0 is 1")
else:
    for i in range(1,num + 1):
        factorial = factorial*i
        print("The factorial of",num,"is",factorial)</pre>
```

5. Python Program for simple interest

```
def simple_interest(p,t,r):
    print('The principal is', p)
    print('The time period is', t)
    print('The rate of interest is',r)

si = (p * t * r)/100

print('The Simple Interest is', si)
    return si

simple_interest(8, 6, 8)
```

6. Python Program for compound interest

def compound_interest(principle, rate, time):

```
# Calculates compound interest
Amount = principle * (pow((1 + rate / 100), time))
CI = Amount - principle
print("Compound interest is", CI)
compound_interest(10000, 10.25, 5)
```

7. Python Program to Check Armstrong Number

```
num = int(input("Enter a number: "))
sum = 0
temp = num
while temp > 0:
    digit = temp % 10
    sum += digit ** 3
    temp //= 10

# display the result
if num == sum:
    print(num, "is an Armstrong number")
else:
    print(num, "is not an Armstrong number")
```

8. Python Program for Program to find the area of a circle import math

```
def area_of_the_circle (Radius):
    area = Radius** 2 * math.pi
    return area

Radius = float (input ("Please enter the radius of the given circle: "))
print (" The area of the given circle is: ", area_of_the_circle (Radius))
```

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

lower = 900

```
upper = 1000
   print("Prime numbers between", lower, "and", upper, "are:")
   for num in range(lower, upper + 1):
    # all prime numbers are greater than 1
    if num > 1:
       for i in range(2, num):
          if (num \% i) == 0:
            break
       else:
         print(num)
      Python program to check whether a number is Prime or not
10.
   num = 11
   if num > 1:
         for i in range(2, int(num/2)+1):
    - Ph
               if (num % i) == 0:
    7.1
                     print(num, "is not a prime number
                     break
         else:
               print(num, "is a prime number")
   else:
         print(num, "is not a prime number")
```