

In [ ]: 1. Write a Python program to find those numbers which are divisible by 7 and multiple of 5, between 1500 and 2700 (both included)?

```
In [6]: n1=[]
for x in range(1500, 2701):
    if (x%7==0) and (x%5==0):
        n1.append(str(x))
print(','.join(n1))
```

1505,1540,1575,1610,1645,1680,1715,1750,1785,1820,1855,1890,1925,1960,1995,2030,2065,2100,2135,2170,2205,2240,2275,2310,2345,2380,2415,2450,2485,2520,2555,2590,2625,2660,2695

In [ ]: Q.2 Python program to add two numbers?

```
In [7]: num_1 = 2
num_2 = 3
num_3 = num_1+num_2
print(num_3)
```

5

In [ ]: Q.3 Maximum of two numbers in Python?

```
In [8]: def maximum(a, b):

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

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

4

In [ ]: Q.4 Python Program for factorial of a number?

```
In [9]: def factorial(n):
    if n == 0:
        return 1
    else:
        return n * factorial(n-1)
n=int(input("Input a number to compute the factiorial : "))
print(factorial(n))
```

Input a number to compute the factiorial : 4  
24

In [ ]: Q.5 Python Program for simple interest?

```
In [10]: P = float(input("Enter the principal amount : "))

N = float(input("Enter the number of years : "))

R = float(input("Enter the rate of interest : "))
SI = (P * N * R)/100
print("Simple interest : {}".format(SI))
```

```
Enter the principal amount : 120
Enter the number of years : 2
Enter the rate of interest : 1.2
Simple interest : 2.88
```

In [ ]: Q.6 Python Program for compound interest?

```
In [14]: P = float(input("Enter the principle amount : "))

R = float(input("Enter the rate of interest : "))
T = float(input("Enter the time in the years: "))
CI = P * (pow((1 + R / 100),T))
print("Compound interest : {}".format(CI))
```

```
Enter the principle amount : 100
Enter the rate of interest : 1.3
Enter the time in the years: 2
Compound interest : 102.61689999999999
```

In [ ]: Q.8 Python Program for Program to find area of a circle?

```
In [15]: def findArea(r):
        PI = 3.142
        return PI * (r*r);
print("Area is %.6f" % findArea(5));
```

```
Area is 78.550000
```

In [ ]: Q.9 Python program to print all Prime numbers in an Interval?

```
In [16]: lower = 900
upper = 1000

print("Prime numbers between", lower, "and", upper, "are:")

for num in range(lower, upper + 1):
    if num > 1:
        for i in range(2, num):
            if (num % i) == 0:
                break
        else:
            print(num)
```

```
Prime numbers between 900 and 1000 are:
```

```
907
911
919
929
937
941
947
953
967
971
977
983
991
997
```

In [ ]: Q.10 Python program to check whether a number is Prime or not?

```
In [17]: number = int(input("Enter any number: "))
if number > 1:
```

```
for i in range(2, number):  
    if (number % i) == 0:  
        print(number, "is not a prime number")  
        break  
    else:  
        print(number, "is a prime number")  
else:  
    print(number, "is not a prime number")
```

Enter any number: 3

3 is a prime number

In [ ]: