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1. Write a python program to test a given number is prime or not?
Num = 11
# If given number is greater than 1
If num > 1:
  # Iterate from 2 to n / 2
  For I in range(2, int(num/2)+1):
    # If num is divisible by any number between
    # 2 and n / 2, it is not prime
    If (num % i) == 0:
      Print(num, "is not a prime number")
      Break
  Else:
    Print(num, "is a prime number")
Else:
  Print(num, "is not a prime number")
Output
11 is a prime number
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2. Write a program to generate odd number from m to n using while loop? Maximum = int(input(" Please Enter the Maximum Value : ")) Number = 1 While number <= maximum: If(number % 2 != 0): Print("{0}".format(number)) Number = number + 1 Output: Please Enter the Maximum Value: 15 1 3 5 7 9 11 13

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3. Write a python program to display prime number series upto given numbers
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)
Output:
Prime numbers between 900 and 1000 are:
907
911
919
929
937
941
947
953
967
971
977
983
991
997
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4. Write a python program to generate Fibonacci series
# check if the number of terms is valid
If nterms <= 0:
 Print("Please enter a positive integer")
# if there is only one term, return n1
Elif nterms == 1:
 Print("Fibonacci sequence upto",nterms,":")
 Print(n1)
# generate fibonacci sequence
Else:
 Print("Fibonacci sequence:")
 While count < nterms:
   Print(n1)
   Nth = n1 + n2
   # update values
   N1 = n2
   N2 = nth
   Count += 1
Output:
How many terms? 7
Fibonacci sequence:
0
1
1
2
3
5
```