ASSIGNMENT - 1

Assignment date	19 September 2022
Student name	S. PRABHAVATHY
Student register number	310619106100
Maximum marks	2 Marks

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Prg 1:
# Program to check if a number is prime or not
num = 29
# To take input from the user
#num = int(input("Enter a number: "))
# define a flag variable
flag = False
# prime numbers are greater than 1
if num > 1:
  # check for factors
  for i in range(2, num):
    if (num % i) == 0:
      # if factor is found, set flag to True
      flag = True
      # break out of loop
      break
# check if flag is True
if flag:
  print(num, "is not a prime number")
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else:
  print(num, "is a prime number")
prg 2:
# Python program to print Even Numbers in given range
start = int(input("Enter the start of range:"))
end = int(input("Enter the end of range:"))
# iterating each number in list
for num in range(start, end + 1):
        # checking condition
        if num % 2 != 0:
                print(num)
prg 3:
# Python program to display all the prime numbers within 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)
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prg 4:
# Program to display the Fibonacci sequence up to n-th term
nterms = int(input("How many terms? "))
# first two terms
n1, n2 = 0, 1
count = 0
# 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
elifnterms == 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
```