

Assignment -1
Python Programming

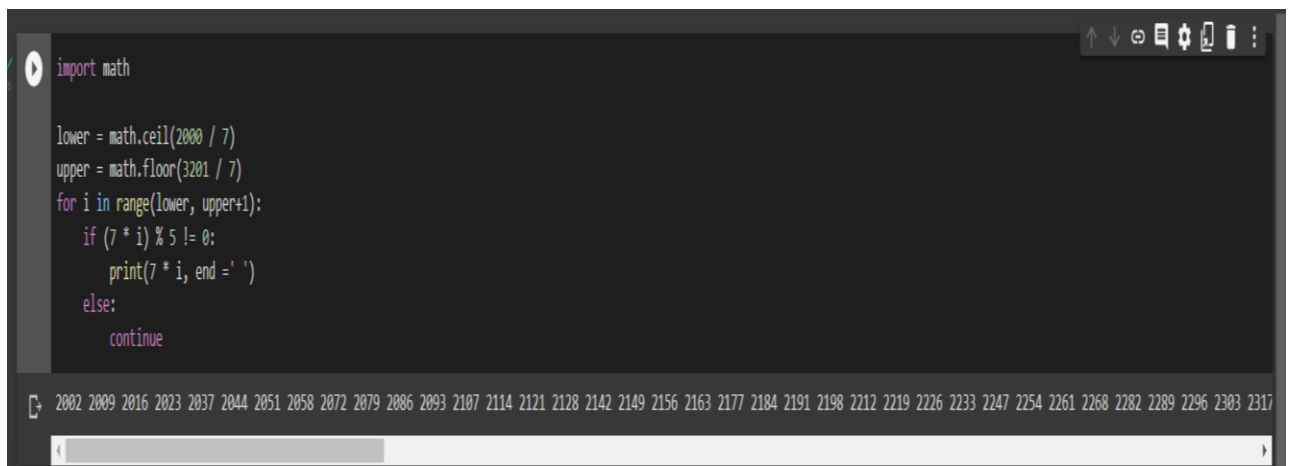
Assignment Date	21October 2022
Student Name	KIRUTHIKA.P
Student Roll Number	310819205043
Maximum Marks	2 Marks

Question-1:

Write a program which will find all such numbers which are divisible by 7 but are not a multiple of 5, between 2000 and 3200 (both included). The numbers obtained should be printed in a comma-separated sequence on a single line.

Solution:

```
import math
Lower = math.ceil(2000 / 7)
Upper = math.floor(3201 / 7)
For i in range(lower, upper+1):
    If (7 * i) % 5 != 0:
        Print(7 * i, end = ' ')
    Else: continue
```



The screenshot shows a Python IDE with the following code:

```
import math

lower = math.ceil(2000 / 7)
upper = math.floor(3201 / 7)
for i in range(lower, upper+1):
    if (7 * i) % 5 != 0:
        print(7 * i, end = ' ')
    else:
        continue
```

The output at the bottom of the IDE shows a sequence of numbers: 2002 2009 2016 2023 2037 2044 2051 2058 2072 2079 2086 2093 2107 2114 2121 2128 2142 2149 2156 2163 2177 2184 2191 2198 2212 2219 2226 2233 2247 2254 2261 2268 2282 2289 2296 2303 2317. The numbers are separated by spaces, which is a slight deviation from the comma-separated sequence specified in the question.

Question-2:

With a given integral number n , write a program to generate a dictionary that contains $(i, i*i)$ such that i is an integral number between 1 and n (both included). and then the program should print the dictionary.

Suppose the following input is supplied to the program:
8

Then, the output should be:

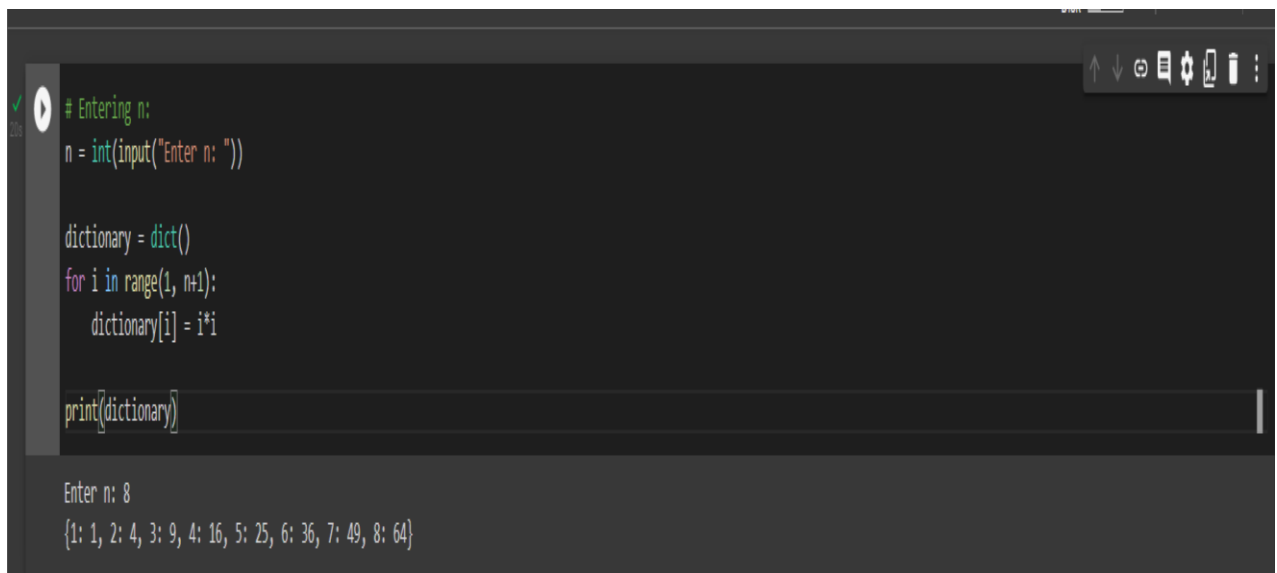
{1: 1, 2: 4, 3: 9, 4: 16, 5: 25, 6: 36, 7: 49, 8: 64}

Solution:

```
# Entering n:
n = int(input("Enter n: "))

dictionary = dict()
for i in range(1, n+1):
    dictionary[i] = i*i

print(dictionary)
```



The screenshot shows a Python IDE with a dark theme. The code editor contains the following Python code:

```
# Entering n:
n = int(input("Enter n: "))

dictionary = dict()
for i in range(1, n+1):
    dictionary[i] = i*i

print(dictionary)
```

Below the code editor, the input and output of the program are displayed:

Enter n: 8
{1: 1, 2: 4, 3: 9, 4: 16, 5: 25, 6: 36, 7: 49, 8: 64}