Programming Assignment-16

Question 1: Ans. def stutter(word): return f"{word[:2]}... {word[:2]}... {word}?" # Examples print(stutter("incredible")) # Output: "in... in... incredible?" print(stutter("enthusiastic")) # Output: "en... en... enthusiastic?" print(stutter("outstanding")) # Output: "ou... ou... outstanding?" Question 2: Ans. import math def radians_to_degrees(radians): return round(radians * (180 / math.pi), 1) # Examples print(radians_to_degrees(1)) # Output: 57.3 print(radians_to_degrees(20)) # Output: 1145.9 print(radians to degrees(50)) # Output: 2864.8 Question 3: Ans. def is curzon(num):

return (2**num + 1) % (2 * num + 1) == 0

Examples

```
print(is_curzon(5)) # Output: True
print(is curzon(10)) # Output: False
print(is_curzon(14)) # Output: True
Question 4:
Ans.
import math
def area of hexagon(x):
  return round((3 * math.sqrt(3) * (x ** 2)) / 2, 1)
# Examples
print(area_of_hexagon(1)) # Output: 2.6
print(area of hexagon(2)) # Output: 10.4
print(area_of_hexagon(3)) # Output: 23.4
Question 5:
Ans.
def binary(n):
  return bin(n).replace("0b", "")
# Examples
print(binary(1)) # Output: "1"
print(binary(5)) # Output: "101"
print(binary(10)) # Output: "1010"
```