# >>>>Question\_01

# printing through triple commas and print as written

from datetime import date, datetime

import math

import sys

print("""

Twinkle, twinkle, little star,

How I wonder what you are!

Up above the world so high,

Like a diamond in the sky.

Twinkle, twinkle, little star,

How I wonder what you are

""")

# >>>>END

# >>>>Question\_02

print("Python Version: " + sys.version)

# >>>>END

# >>>>Question\_03

#Import date

today\_date = str(date.today())

#now time in format HMS

now = datetime.now()

date\_str = now.strftime("%d/%m/%Y %H:%M:%S")

print("Date(YYYY/MM/DD) is: " + today\_date + "\n" + "Time(HH/MM/SS) is: " + date\_str)

# >>>>END

# >>>>Question\_04

inp\_radius = int(input("Enter Radius of Circle: "))

area\_circle = ((math.pi) \* (inp\_radius \* inp\_radius))

format\_area = "{:.2f}".format(area\_circle)

print("Area of Circle is: " + str(format\_area))

# >>>>END

# >>>>Question\_05

first\_name = str(input("Enter your First Name: "))

last\_name = str(input("Enter your Last Name: "))

rev\_first\_name = first\_name[::-1]

rev\_last\_name = last\_name[::-1]

print("First Name is: " + first\_name + " and Last Name is: " + last\_name + "\n" +

"First Name in reverse Order is: " + rev\_first\_name + " and Last Name in reverse Order is: " + rev\_last\_name)

# >>>>END

# >>>>Question\_06

num\_1 = int(input("Enter your First Number: "))

num\_2 = int(input("Enter your Second Number: "))

sum\_numbers = num\_2 + num\_1

format\_summation = str(sum\_numbers)

print("Sum of " + str(num\_1) + " and " + str(num\_2) + " is " + format\_summation)

# >>>>END

# >>>>Question\_07

sub\_1 = float(input("Enter Marks in OOP: "))

sub\_2 = float(input("Enter Marks in DSA: "))

sub\_3 = float(input("Enter Marks in ISE: "))

sub\_4 = float(input("Enter Marks in PS: "))

sub\_5 = float(input("Enter Marks in CS: "))

total\_marks = (sub\_1 + sub\_2 + sub\_3 + sub\_4 + sub\_5)

avg = ((total\_marks / 500) \* 100)

if (avg >= 90):

print("WELLDONE! You have secured first Grade." + "\n" + "Your percentage is ", avg)

elif (avg >= 80 and avg < 90):

print("EXCELLENT! You have secured Second Grade." + "\n" + " Your percentage is ", avg)

elif (avg >= 70 and avg < 80):

print("VERY GOOD! You have secured Third Grade and ." + "\n" + " Your percentage is ", avg)

elif (avg >= 60 and avg < 70):

print("GOOD! You have secured Fourth Grade & Need Improvements." + "\n" + " Your percentage is ", avg)

elif (avg >= 50 and avg < 60):

print("FAIR! You have secured Fifth Grade and this is Last Chance." + "\n" + " Your percentage is ", avg)

elif (avg == 40):

print("PASS Only! No Such Grades." + "\n" + " Your percentage is ", avg)

elif (avg < 40):

print("FAIL! You are out." + "\n" + " Your percentage is ", avg)

# >>>>END

# >>>>Question\_08

inp\_number = int(input("Enter a number: "))

modulus = inp\_number % 2

if modulus > 0:

print(str(inp\_number) + " is an odd number.")

else:

print(str(inp\_number) + " is an even number.")

# >>>>END

# >>>>Question\_09

list\_new = ['kamran', 'hassan', 2021, "khalid", 2111]

len\_list = len(list\_new)

print("Length of List is: " + str(len\_list))

# >>>>END

# >>>>Question\_10

list\_num = [2, 4, 5, 7, 8]

for n in range(len(list\_num)):

list\_sum = sum(list\_num)

print("Sum of elements in given list is :", list\_sum)

# >>>>END

# >>>>Question\_11

list\_num\_max = [2, 4, 5, 7, 8]

for n in range(len(list\_num\_max)):

list\_max = max(list\_num\_max)

print("Sum of elements in given list is :", list\_max)

# >>>>END

# >>>>Question\_12

list\_less\_five = [1, 1, 2, 3, 5, 8, 13, 21, 34, 55, 89]

new\_list\_less\_five = []

for x in list\_less\_five:

if(x < 5):

new\_list\_less\_five.append(x)

print("All Elements less than five in List are:", new\_list\_less\_five)

# >>>>END