PYTHON TEST NUMBER - 1

Question 1 =

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#1 Write a programme to find the area and perimeter of the following figure (length, Breadth and radius)

length = int(input("Enter the length of the rectangle: "))
breadth = int(input("Enter the breadth of the rectangle: "))
radius = int(input("Enter the radius of the semicircle: "))

if radius * 2 != breadth:
    print("Error: Radius is a half of the breadth of the rectangle.")
else:
    rectangular_area = length * breadth
    semicircular_area = (3.14 * radius * radius) / 2
    total_area = rectangular_area + semicircular_area

    rectangular_perimeter = 2 * length + 2 * {breadth - radius}}

semicircular_perimeter = 3.14 * radius
    total_perimeter = rectangular_perimeter + semicircular_perimeter

print(f"The Area of diagram is {total_area} and Perimeter is {total_perimeter}")

The Area of diagram is 139.25 and Perimeter is 45.7
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Question 1 but another Formula -

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# Question 1 but Different Method .
length = int(input("Please Enter the Length of the Perimeter : "))
radius = int(input("Please Enter the radius of the Perimeter : "))

# With Using Formula (2hr + 3.14 * r**2 / 2 )
area = 2 * (length * radius ) + ((3.14 * radius * radius ) /2)
perimeter = (2 * length) + (radius * (2 + 3.14))

# print(perimeter)
# print(area)
print(f"The Area of diagram is {area} and Perimeter is {perimeter}")

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The Area of diagram is 139.25 and Perimeter is 45.7
```

Question 2 -

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#2 write a programme to calculate Simple interest

principle = int(input("Please Enter the Principle : "))
rate = int(input("Please Enter the Rate : "))
Time = int(input("Please Enter the time : "))

simple_interest = (principle * rate * Time ) / 100

print("The simple Interest is", simple_interest)

... The simple Interest is 100.0
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Question 3 =

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#3 write a programme to accept distance in Km and Convert in into meters and centimets

km = int(input("Please Enter the Kilometer : "))

metre = km * 1000
centi_meter = metre * 100

print(f"The Distance of {km} kilometer is {metre} metre and {centi_meter} Centi Meter .")

The Distance of 2 kilometer is 2000 metre and 2000000 Centi Meter .
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Question 4 -

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#4 Calculate the Cost of the painting of the Building Walls (area and Cost of both interior and exteriro wall )

area_of_Interior = int(input("Please Enter the area of Interior : "))
area_of_Exterior = int(input("Please Enter the Area of Exterior : "))
cost_of_interior = int(input("Please Enter the Cost of Interior : "))
cost_Of_exterior = int(input("Please Enter the Cost of Exterior : "))

final_Cost = (area_of_Interior * cost_of_interior) + (area_of_Exterior * cost_Of_exterior)

print("The final Cost is - ", final_Cost)

The final Cost is 1400
```