PYTHON ASSIGNMENT - 1

Question 1 –

```python
# calculate percentage of student based on marks
id = int(input("Please Enter the Id : "))
sub1 = int(input("Enter marks of subject 1: "))
sub2 = int(input("Enter marks of subject 2: "))
sub3 = int(input("Enter marks of subject 3: "))
sub4 = int(input("Enter marks of subject 4: "))
sub5 = int(input("Enter marks of subject 5: "))

total = sub1 + sub2 + sub3 + sub4 + sub5
percentage = total/5

print("Total percentage is the {0}".format(percentage))
print(f"Total percentage is the {id} = {percentage}")
```

Question 2 –

```python
# program to calculate area of rectangle based on length and breadth

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

area = length * breadth
print(f"area of rectangle is {area}")
```

Question 3 –

```python
1    # find quotient and remainder of 2 numbers        You, last week • Python Practice C
2
3    num1 = int(input("Enter first number : "))
4    num2 = int(input("Enter second number : "))
5
6    quot = num1 // num2
7    rem = num1 % num2
8    print (f"The quotient and remainder of {num1} and {num2} is {quot} and {rem}")
```

Question 4 –

```python
1    # write a program to enter p, t, r and calculate simple interest
2
3    p= int(input("Enter principle amount : "))
4    r= int(input("Enter rate of interest : "))
5    t= int(input("Enter time period in year : "))
6
7    total= p*r*t
8    si= total/100
9
10   print(f"The simple interest of amount {p} for {t} time at {r} is {si}")        You,
```

Question 5 –

```python
1    # program to enter p, t, r and calculate compound interest
2
3    p=int(input("Enter principle amount : "))
4    r=int(input("Enter rate of interest : "))
5    t=int(input("Enter time period in year : "))
6
7    total=p*(1+r)**t
8    ci=total-p
9
10   print(f"The compound interest is {ci}")        You, last week • Python P
```

Question 6 –

```python
# program to find third angle of triangle

a1=int(input("Enter first angle of triangle :"))
a2=int(input("Enter second angle of triangle :"))

a3=180-a1-a2

print(f"The third angle of triangle is {a3}")
```

Question 7 –

Assignments_Python > Day1_Assignment > 🐍 assignment7.py > ...

```python
#Program to Find the Roots of a Quadratic Equation

import math
a = int(input("Enter value of a:"))
b = int(input("Enter value of b:"))
c = int(input("Enter value of c:"))

d = (b**2)-4*(a*c)

r1 = b + math.sqrt(d)/2*a
r2 = b - math.sqrt(d)/2*a

print(f"Square roots of the quadratic equation is {r1} and {r2}")
```

Question 8 -

```python
# program to covert days into years, week, days

day=int(input("Enter number of days: "))
years=day//365
day=day%365
weeks=day//7
day=day%7

print(f"The year , weeks, days are {  years}, {weeks}, {day}")
```

Question 9 –

```python
# calculate area of tringle with height and base


base = int(input("Enter base of rectangle : "))
height = int(input("Enter height of rectangle :"))
area = 0.5 * base * height     # You, last week • Python Practice Code

print(f"The area of rectangle with base of {base} and height of {height} is {area}")
```

Question 10 –

```python
# write a program to calculate area of equilateral triangle

import math

side = int(input("Enter the side of equilateral triangle : "))

sqr = math.sqrt (3)

area =sqr / 4 * side *side
print(area,"is area of equilateral triangle")     # You, last week •
```

Question 11 –

```
     You, last week | 1 author (You)
1    # find area and circumference of circle
2
3    radius = int(input("Enter radius of circle : "))
4
5    area = 3.14 * radius * radius
6    circumference = 2 *3.14 * radius
7
8    print(f"area and circumfrence of circle is {area} and {circumference}")
```

Question 12 –

```
     You, last week | 1 author (You)
1    # find volume of sphere          You, last week • Python Pra
2
3    radius = int(input("Enter radius of sphere : "))
4
5    volume= 4/3 *3.14 * radius * radius *radius
6
7    print("volume of sphere is ",volume)
```