Python Programming

Lab Assignment – 4

- 1. Write a program for arithmatic operators
- 2. Write a program for assignment operators
- 3. Write a program for Bitwise operators
- 4. Write a program to calculate greatest of three numbers.
- 5. Calculate the area of a circle.
- 6. Calculate the area of a triangle.
- 7. Calculate the area of a rectangle.
- 8. Calculate the area of a square.
- 1. Write a program for arithmatic operators

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Sol:

a = 4

b = 5

print("The Addition is = ",a+b)

print("The Substraction is = ",a-b)

print("The Division is = ",a/b)

print("The Multiplication is = ",a*b)
```

2. Write a program for assignment operators Sol: x = 10print("Initial value of x:", x) x = 20print("Value of x after simple assignment:", x) x += 5 print("Value of x after x += 5:", x) x = 3print("Value of x after x -= 3:", x) x *= 2print("Value of x after x *= 2:", x) x /= 4print("Value of x after x /= 4:", x) x %= 3 print("Value of x after x %= 3:", x)

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3.Write a program for Bitwise operators
Sol:
a = 10
b = 4
print(f"Initial values: a = {a}, b = {b}")
and_result = a & b
print(f"Bitwise AND (a & b): {and_result} (Binary: {bin(and_result)})")
or_result = a | b
print(f"Bitwise OR (a | b): {or_result} (Binary: {bin(or_result)})")
xor_result = a ^ b
print(f"Bitwise XOR (a ^ b): {xor_result} (Binary: {bin(xor_result)})")
not_result = ~a
print(f"Bitwise NO")
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4. Write a program to calculate greatest of three numbers.
Sol:
a = int(input("Enter the first Number = "))
b = int(input("Enter the Second number = "))
c = int(input("Enter the third number = "))
if a \ge b and a \ge c:
  print(f" A is greater than b and c ")
elif b \ge a and b \ge c:
  print(f" B is greater than A and C ")
else:
  print(f" C is greater than A and B ")
5.
     Calculate the area of a circle.
Sol:
r = int(input("Enter the radius = "))
print(f"The Area of Circle is = ",3.14*r*r)
print(f"The Periemeter of Circle is = ",2*3.14*r)
6.
     Calculate the area of a triangle.
Sol.
base = 3
height = 4
print(f" The Area of Triangle is = ",1/2*base*height)
```

7. Ca	lculate the area of a rectang	ale.	
Sol:		, -	
Length =	4		
Width =	6		
Print(f"A	rea of Rectangle is = " ,Leng	gth *Width)	
8. Ca	lculate the area of a square		
Sol:			
Side = 9			
Print(f" A	rea of Square is = ", Side*S	iide)	

