# 2140232_lab_revision4

July 31, 2022

evaluate the following using .format operator $x^{(y-1)} + y^{(x-1)/(xy)}1/2 + \log(\text{root}(x+y-1))$

```python
import math as m

x = int(input("enter  x : "))
y = int(input("enter  y : "))


a = x**(y-1) + (y**(x-1))/((x*y)**1/2) + m.log(m.sqrt(x+y-1))

print("{0:0.2}".format(a))
```

```
enter  x : 23
enter x : 3
9.1e+08
```

```python
s = "hello my name is joel varghese and im in class doing python"

p = s.split(" ")

for i in p:
    if len(i)%2 == 0:
        print(i)
```

```
my
name
is
joel
varghese
im
in
python
```

```python
import math


def a_sq():
    s = eval(input("Enter the side: "))
```

1

```python
        return s**2

def a_tri():
    b = eval(input("Enter the base: "))
    h = eval(input("Enter the height: "))
    return 0.5 * b * h

def a_rec():
    b = eval(input("Enter the length: "))
    h = eval(input("Enter the breadth: "))
    return b * h

def a_circle():
    r = eval(input("Enter the radius: "))
    return math.pi*(r**2)

l = (a_sq, a_tri, a_rec, a_circle)
print("The area is", l[int(input("1. Square\n2. Triangle\n3. Rectangle\n4.␣
 ↪Circle")) - 1](), "unit squares.")
```

```
1. Square
2. Triangle
3. Rectangle
4. Circle4
Enter the radius: 45
The area is 6361.725123519331 unit squares.
```

```python
[ ]: ppp = "geography is not my favourate subject because i love physics"

c = 0
v = ("a","e","i","o","u")

for i in ppp:
    if i.lower() in v:
        c+=1

print(c)
```

```
20
```

```python
[ ]: for i in range (1,6): print((str(i)+" ")*(6-i),end='')
```

```
1 1 1 1 1 2 2 2 2 3 3 3 4 4 5
```

```python
[ ]: b = int(input("enter the salary : "))

if b <= 10000:
```

```python
    s = b + b*0.2 + b*0.4 - b*0.05
elif b <= 20000:
    s = b + b*0.25 + b*0.5 - b*0.05
else:
    s = b + b*0.3 + b*0.55 - b*0.06
print("basic salary : ", b)
print("Gross salary : ", s)
```

```
basic salary :   15000
Gross salary :   25500.0
```