Assignment 3

02/19/2024

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Question 1

In [1]:
```
x = lambda num1,num2: num1*num2
x(5,6)
```

Out[1]:
```
30
```

Question 2

In [8]:
```
import math
radius = float(input("Enter the radius of the circle :"))
area = math.pi *radius *radius
print("Area of the Circle is : {0}".format(area))
```

```
Enter the radius of the circle :10
Area of the Circle is : 314.1592653589793
```

Question 3

In [70]:
```
def calculat(number1, number2, operation):
    if operation == 'a':
        return number1 + number2
    elif operation == 's':
        return number1 - number2
    elif operation == 'm':
        return number1 * number2
    elif operation == 'd':
        return number1 / number2 if number2 != 0 else 'err'


res = calculat(2, 5, 'd')
print(res)
```

```
0.4
```

Question 4

In [72]:
```
def cr_rec(length, width):
    return {"length": length, "width": width}

def rec_area(rectangle):
    return rectangle["length"] * rectangle["width"]


r = cr_rec(5, 10)
print(rec_area(r))
```

```
50
```

Question 5

In [76]:
```
def shape_create(name, length):
    Return {name:"name",length:"length"}
def area_shape(shape):
    Return shape["length"]**2
def describe_shape(shape):
    print(f"I'm a {shape['name']} with area {area_shape(shape)}")
def square_create(length):
    Return shape_create("square", length)

s= square_create(5)
describe_shape(s)
```

```
  Cell In[76], line 2
    Return {name:"name",length:"length"}
           ^
SyntaxError: invalid syntax
```

In [ ]:
```

```