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Lab Exercise 5

Question 1

```python
def div(x, y):
    try:
        r = x / y
        return r
    except:
        print("errr: division by zero not allowed")
        return None

num = float(input("numerator: "))
denom = float(input("denominator: "))
r = div(num, denom)
if r is not None:
    print(f"result: {r}")
```

errr: division by zero not allowed

Question 2

```python
def indx(a,i):
    try:
        print(a[i])
        return a
    except:
        print("errr: index out of bound")
        return None
    finally:
        print(f"The list is {a} and the index given was {i}")
lst = []

n = int(input("enter number of elements : "))

for i in range(0, n):
        ele = int(input())
        lst.append(ele)
```

```
l=int(input("enter the index"))
indx(lst,l)
```

errr: index out of bound
The list is [1, 2, 3, 4] and the index given was 5

Lab Exercise 6

Question 1

```
[ ]: import re
txt=input("enter the string")
print(txt)
x = re.search(r"(\(\d{3}\)-\d{3}-\d{4}|\d{3}-\d{3}-\d{4})", txt)
if x is not None:
    print("Phone Number found:",x.group())
else:
    print("Phone Number not found")
```

My phone number is 111-111-1111
Phone Number found: 111-111-1111

Question 2

```
[ ]: import re

password = input("enter a password: ")
print(password)
x=re.match(r"^(?=.*[a-z])(?=.*[A-Z])(?=.*\d)(?=.*[@$!%*?&])[A-Za-z\d@$!%*?
  ↪&]{8,}$", password)

if x is not None:
    print("The password is strong.")
else:
    print("The password is not strong.")
```

Christ@123
The password is strong.