```
Question 1
5 - int
 5.0 - float
5 > 1 - bool
'5' - str
5 - str

5 * 2 - int

'5' * 2 - str

'5' + '2' - str

5 / 2 - float
 5 % 2 - int
{5, 2, 1} - dict
5 == 3 - bool
Pi (the number) - float
```

Question 2

```
In [3]: print('Length of Supercalifragilisticexpialidocious : ', len('Supercalifragilisticexpialidocious'))
            Length of Supercalifragilisticexpialidocious : 34
 In [8]: print("Does 'Supercalifragilisticexpialidocious' contain 'ice' as a substring? :",'ice' in 'Supercalifragilisticexpialidocious')
            Does 'Supercalifragilisticexpialidocious' contain 'ice' as a substring? : True
In [12]: arr = ['Supercalifragilisticexpialidocious', 'Honorificabilitudinitatibus', 'Bababadalgharaghtakamminarronnkonn']
lendict = {}
for a in arr:
    lendict[a] = len(a)
lendict
# Lendict.keyof(max(Lendict.values()))
Out[12]: {'Supercalifragilisticexpialidocious': 34, 
'Honorificabilitudinitatibus': 27, 
'Bababadalgharaghtakamminarronnkonn': 34}
```

In [88]: words = ['Berlioz', 'Borodin', 'Brian', 'Bartok', 'Bellini', 'Buxtehude', 'Bernstein']
sort() will sort the strings.
words.sort()
print('First word in the dictionary would be : ',words[0])
print('Last word in the dictionary would be : ',words[-1])

First word in the dictionary would be : Bartok Last word in the dictionary would be : Buxtehude

Question 3

Question 4

```
In [18]: length = int(input('Input the number of elements to be stored in the array :'))

print('Input '+ str(length) +' elements in the array :')

arr = []

for i in range(length):

arr.append(int(input('element - '+str(i)+' : ')))

even = []

odd = []

for a in arr:

if ant=re:

even.append(a)

else:

odd.append(a)

print('The Even elements are:')

for e in even:

print(e, end=" ")

print()

print('The Odd elements are:')

for o in odd:

print(o, end=" ")

Input the number of elements to be stored in the array :5

Input 5 element - 0 : 11

element - 1 : 12

element - 2 : 13

element - 4 : 15

The Even elements are:
12 14

The Odd elements are:
11 13 15
```

Question 5

a)

Question 6

```
In [26]: def pig(word):
    word = word.lower()
    vowels = ['a', 'e', 'i', 'o', 'u']
    if word[0] not in vowels:
        start = word[0]
        word = word[1:]+start+'ay'
    else:
        word += 'way'
    return word

In [30]: pig('happy')

Out[30]: 'appyhay'

In [31]: pig('pencil')

Out[31]: 'encilpay'

In [32]: pig('other')

Out[32]: 'otherway'

In [33]: pig('Enter')

Out[33]: 'enterway'
```

Question 7

Question 8

Question 9

Out[67]: 1.241401

Trying to add incompatible variables, as in adding 6 + 'a': Unsupported type

Referring to the 12th item of a list that has only 10 items: Out of index

Using a value that is out of range for a function's input, such as calling math.sqrt(-1.0): domain error

Using an undeclared variable, such as print(x) when x has not been defined: variable not defined

Trying to open a file that does not exist, such as mistyping the file name or looking in the wrong directory. No such directory found

Question 10