**1. Why are functions advantageous to have in your programs?**

**Ans = Because when you create function in the program you can repeatedly use it anywhere by calling the function name in the program without writing all code again**

**def add(a,b):**

**return a+b**

**print(add(1,3))**

**print(add(10,20))**

**2. When does the code in a function run: when it's specified or when it's called?**

**Ans = Function will run when it is called and pass the parameters if necessary.**

**3. What statement creates a function?**

**Ans= You can create function with def keyword**

**Ex = def function\_name(a,b)**

**4. What is the difference between a function and a function call?**

**Ans = function is a block of code that is to be executed**

**A function call is calling that function that is to be executed**

**Without function call, the function can’t run anything**

**5. How many global scopes are there in a Python program? How many local scopes?**

**Ans = Global Scope: there can be only 1 global scope in python which is at the top level of every function.**

**Local Scope: There can be many local scopes to the function**

**6. What happens to variables in a local scope when the function call returns?**

**Ans = the variable which is inside local scope is executed**

var='global scope'

def my\_function():

    var='local scope'

    print(var)

my\_function()

print(var)

**output : local scope**

**global scope**

**7. What is the concept of a return value? Is it possible to have a return value in an expression?**

**Ans = It Is used to send the function result to its caller**

**8. If a function does not have a return statement, what is the return value of a call to that function?**

**Ans = then the calling function does not receive/return a result**

**9. How do you make a function variable refer to the global variable?**

var='global scope'

def my\_function():

    print(var)// #**refering** to the global variable

my\_function()

**10. What is the data type of None?**

**Ans = None keyword is used to define a null variable to the object**

**None datatype doesn’t contain ant value**

**11. What does the sentence import areallyourpetsnamederic do?**

**Ans = it will import areallyourpetsnamederic package**

**12. If you had a bacon() feature in a spam module, what would you call it after importing spam?**

**Ans = you to call the bacon() function and pass parameters if necessary**

import spam

bacon(2,3) # if it is addition of 2 number

**13. What can you do to save a program from crashing if it encounters an error?**

**14. What is the purpose of the try clause? What is the purpose of the except clause?**

**Ans = when the function starts executing the code it will try to execute the statements inside TRY BLOCK even it is true or false that doesn’t matter**

**Except = execute this block of code when there is exception occurs**

**We can print custom exceptions with this except keyword**

try:

  print(x)

except:

  print("Custom exception occurred")

**output:** Custom exception occurred

**this will raise an exception because x is not defined**

x="Channabasav angadi"

try:

  print(x)

except:

  print("Custom exception occurred")

**Now the code will Run because now x is defined**

**Output :** Channabasav angadi