1. What is the role of try and exception block?

Ans - The try and exception block is use to handle error in python without stopping the whole program, if it found error it will continue run.

1. What is the syntax for a basic try-except block?

Ans – try : and except : , if fin try there is an possibility of an error then except code will run

1. What happens if an exception occurs inside a try block and there is no matching except block?

Ans – Then the program will crach , python will show a traceback error message , the remaining code after the error will not run .it will not tell you which error is occur.

While is except block , it only target in only one specific error to handle , when any other eror will come , python will trace back, in this we clearly know which problem can occur.

1. What is the difference between using a bare except block and specifying a specific exception type?

Ans – bare except block is it catches all type of error , which are not sure which error is there , and specific execution we know which type of error gonna come and we know what error will come still we ignore and run the code

1. Can you have nested try-except blocks in Python? If yes, then give an example.

No , however we use nested try except block when insdie try block we make a try except block , this is usefull when inside a code we find a multiple level error

1. Can we use multiple exception blocks, if yes then give an example.

Ans – yes we can use multiple except block, bec in every specific error we can handle seprately

1. Write the reason due to which following errors are raised:
   1. EOFError – end of file error . when it try to take input but difficult to take an input.
   2. FloatingPointError – it comes when invalid floating point operation ,
   3. IndexError – when u try to index a invalid list or string
   4. MemoryError – out of memory , when python allocate a big memory , but system don’t have much space
   5. OverflowError – when calculation result is out of calculation , when a float decimin whuile diviing
   6. TabError – when we use tab and space for the identation error , dono mix kr dete ho
   7. ValueError - when you give write input but value is wrong like cant convert int to string
2. Write code for the following given scenario and add try-exception block to it.
   1. Program to divide two numbers

try:

print(10 / 0)

except ZeroDivisionError:

print("0 se divide nahi kar sakte")

* 1. Program to convert a string to an integer

try:

num = int("abc")

except ValueError:

print("Invalid number string")

* 1. Program to access an element in a list

try:

lst = [1, 2, 3]

print(lst[5])

except IndexError:

print("Index galat hai")

* 1. Program to handle a specific exception try:

try:

x = 5 / 0

except ZeroDivisionError:

print("Bas ZeroDivisionError pakda")

* 1. Program to handle any exception

try:

a = "abc" + 5

except:

print("Koi bhi error ho, yeh chalega")