NAME: HIDAYATULLAH KHAN   ID: 14311

DEPERTMENT: (BS S.E)   SEMESTER: 5TH

SUBJECT: DATA SCIENCE   TEACHER: SIR AYUB

Q1. What type of errors do occur in Python, write the a program with different

types of errors as well as write separate correction code?

Ans : syntax error

Type error

Name error

```
In [1]: message = 'One of Python's strengths is its diverse community
        print(message)

          File "<ipython-input-1-dd2523cf37dc>", line 1
            message = 'One of Python's strengths is its diverse community
                                                                        ^
        SyntaxError: invalid syntax

In [ ]:
```

```
In [2]: message = ("One of Python's strengths is its diverse community")
        print(message)

        One of Python's strengths is its diverse community
In [ ]:
```

```
In [1]: print(9090+"hidayat")
```

```
TypeError                                    Traceback (most recent call last)
<ipython-input-1-2805655bf13b> in <module>
----> 1 print(9090+"hidayat")

TypeError: unsupported operand type(s) for +: 'int' and 'str'
```

```
In [2]: print("9090"+"hidayat")

9090hidayat
```

```
In [ ]:
```

```
In [4]:  Name=("hidayat")
         Hidayat

         -----------------------------------------------------------------
                                                     Traceback (most recent call last)
         NameError
         <ipython-input-4-af0699e63210> in <module>
               1 Name=("hidayat")
         ----> 2 Hidayat

         NameError: name 'Hidayat' is not defined


In [5]:  name=("hidayat")
         print("hidayat")

         hidayat


In [ ]: |
```

Q2: What are Boolean String test, write the code for each Boolean string test code?

Ans: . isalpha() , .isnum(), .istitle(), .isdigit(), .islower(),.isupper(), .startswith()

```python
In [1]: "python".isalpha()
Out[1]: True

In [5]: "3rd".isalnum()
Out[5]: True

In [6]: "jupyter notebook".istitle()
Out[6]: False

In [7]: "Jupyter Notebook".istitle()
Out[7]: True

In [8]: "JUPYTER NOTEBOOK".isupper()
Out[8]: True
```

```python
Out[7]: True

In [8]: "JUPYTER NOTEBOOK".isupper()
Out[8]: True

In [9]: "jupyter notebook".islower()
Out[9]: True

In [10]: "234".isdigit()
Out[10]: True

In [ ]:
```
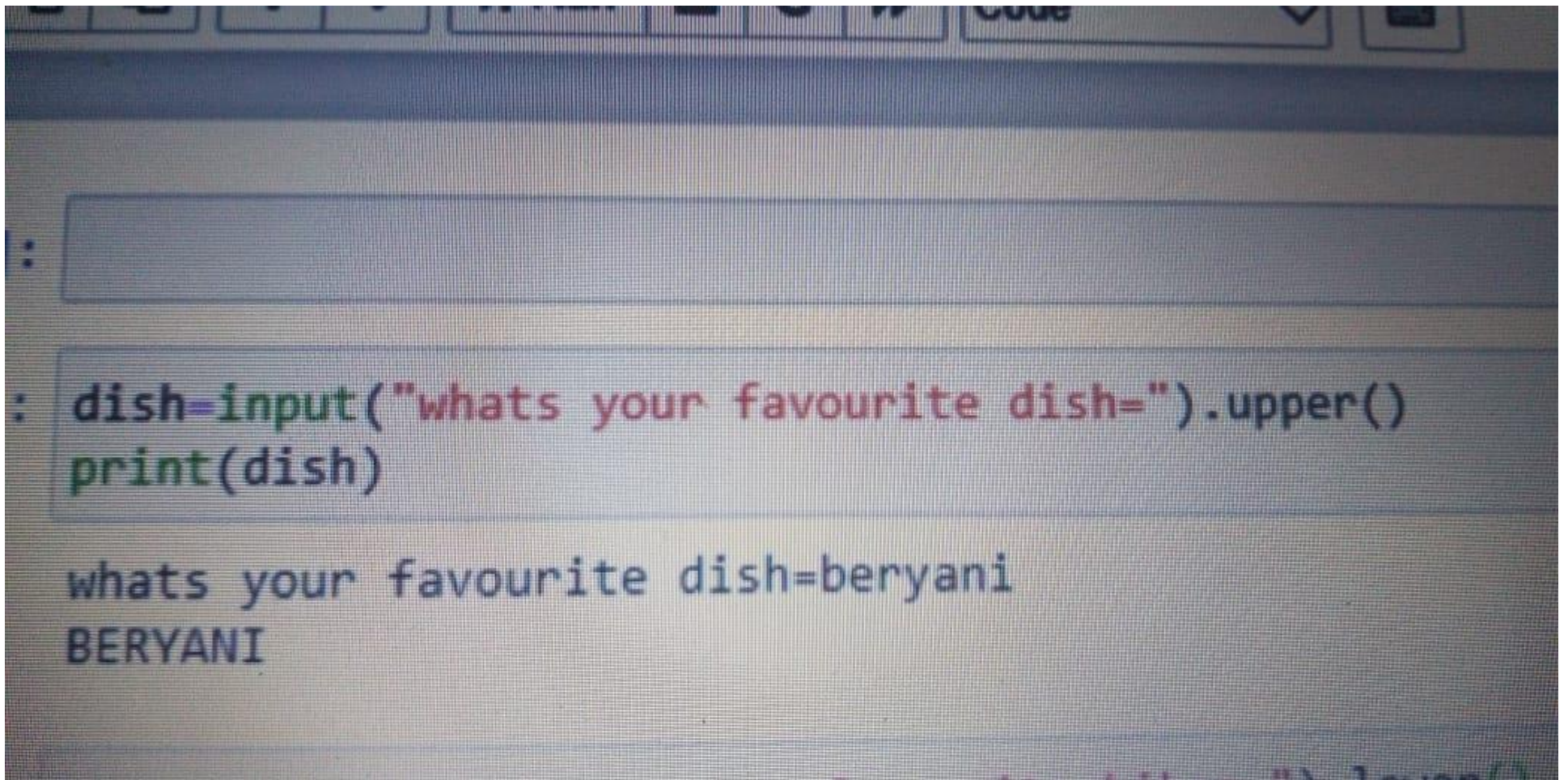
Q3: what is formatting strings input means in python,write a program in which formatting strings input is used?

Ans:String Formatting. Python uses C-style string formatting to create new, formatted strings. The "%" operator is used to format a set of variables enclosed in a "tuple" (a fixed size list), together with a format string, which contains normal text together with "argument specifiers", special symbols like "%s" and "%d

```
dish=input("whats your favourite dish=").upper()
print(dish)

whats your favourite dish=beryani
BERYANI
```