ID :14269

NAME : Qazi Bilal

Each question carry equal marks.
Please answer briefly.

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 : Following type of errors occurs in pyton
1 Syntax error
2 Logical error
3 Runtime error

Syntax error

```
In [1]:  Var = What is your name

           File "<ipython-input-1-d6247dcc508f>", line 1
             Var = What is your name
                            ^
         SyntaxError: invalid syntax
```

```
In [2]:  Var = "What is your name"
```

Logical error

```
In [3]: a=10
        b=10
        c=a+b/0
        print(c)
```

```
-------------------------------------------------------------------------
ZeroDivisionError                          Traceback (most recent call last)
<ipython-input-3-b9bbd4381738> in <module>
        1 a=10
        2 b=10
----> 3 c=a+b/0
        4 print(c)

ZeroDivisionError: division by zero
```

```
In [4]: a=10
        b=10
        c=a+b/2
        print(c)
```

```
15.0
```

Runtime error

```
In [5]: String = "My name is Bilal"
        Designation = "Student"
        print (String)
        print(Job)
```

```
My name is Bilal
```

```
-------------------------------------------------------------------------
NameError                                  Traceback (most recent call last)
<ipython-input-5-a42205d9a1e4> in <module>
        2 Designation = "Student"
        3 print (String)
----> 4 print(Job)

NameError: name 'Job' is not defined
```

```
In [6]: String = "My name is Bilal"
        Designation = "Student"
        print (String)
        print(Designation)
```

```
My name is Bilal
Student
```

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

Ans : A string in Python can be tested for truth value. The return type will be in Boolean value (True or False)

The following are the Boolean string test:

1. .isalpha()

```
In [12]: StringTest = "Hello"
         print(StringTest.isalpha())

         True
```

2. .isalnum()

```
In [10]: StringTest = "Hello Qazi Bilal. How are you"
         print(StringTest.isalnum())

         False
```

3. .isdigit()

```
In [16]: StringTest = "2399"
         print(StringTest.isdigit())

         True
```

4. .istitle()

```
In [18]: StringTest = " The Collage "
         print(StringTest.istitle())

         True
```

5. .isupper()

```
In [20]: StringTest = " THE COLLAGE "
         print(StringTest.isupper())

         True
```

6. .islower()

```
In [21]: StringTest = " THE COLLAGE "
         print(StringTest.islower())

         False
```

7. .startswith()

```
In [29]: StringTest = " qazibilal "
         print(StringTest.startswith('A'))

         False
```

8. .endswith()

```
In [32]: StringTest = " qazibilal "
         print(StringTest.endswith("b"))

         False
```

Q3. What is formatting string input mean in Python . write a program in which formatting string input is used?

ANS:

By Formatting String input mean that to arrange the input that is entered in a specific format and pattern

For example

```
In [7]: Name = input("What is your Name ").capitalize()
        print(Name)

        What is your Name AWAIS
        Awais
```

```
In [8]: Married= input("Are U Married ").upper()
        print(Married)

        Are U Married No
        NO
```

```
In [9]: Job= input("Are U Employeed ? ").lower()
        print(Job)

        Are U Employeed ? YES
        yes
```