**1**. **In the below elements which of them are values or an expression? eg:- values can be integer or string and expressions will be mathematical operators.**

**\***

**'hello'**

**-87.8**

**-**

**/**

**6**

**Ans:-** Operators: +, -, \*, /

Values: 'hello', -87.8, 6

**2**. **What is the difference between string and variable?**

**Ans:-** A string is a value representing text. A variable is a name that can refer to any value.

**3. Describe three different data types.**

**Ans:-** Integers, floating-point numbers, and strings.

**4. What is an expression made up of? What do all expressions do?**

**Ans** An expression is a combination of values and operators. All expressions evaluate (that is, reduce) to a single value.

**5. This assignment statements, like spam = 10. What is the difference between an expression and a statement?**

**Ans**:- An expression evaluates to a single value. A statement does not.

**6. After running the following code, what does the variable bacon contain?**

**bacon = 22**

**bacon + 1**

**Ans**:- The bacon variable is set to 22. The bacon + 1 expression does not reassign the value in bacon (that would need an assignment statement: bacon = bacon + 1)

**7. What should the values of the following two terms be?**

**'spam' + 'spamspam'**

**'spam' \* 3**

**Ans**:- 'spamspamspam'

**8. Why is eggs a valid variable name while 100 is invalid?**

**Ans**:- Variable names cannot begin with a number.

**9. What three functions can be used to get the integer, floating-point number, or string version of a value?**

**Ans**:-The **int() , float() , and str( ) functions**.

**10. Why does this expression cause an error? How can you fix it?**

**'I have eaten ' + 99 + ' burritos.'**

**Ans**:- **'I have eaten + 99 + burritos.'**