**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.**

**\*** = expression

**'hello'** = value

**-87.8** = value

**-**  = expression

**/**  = expression

**+** = expression

**6**  = value

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

**Ans** . Anything that is assigned to a variable using quotes (single or double) will be considered as a string.

Variables are symbols that one can use to store data in a program.

1. **Describe three different data types.**

**Ans** .The data types are :

String , Integer, Boolean ,Character,Float

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

**Ans** .An expression is a combination of operators, constants and variables. An expression may consist of one or more operands, and zero or more operators to produce a value.

1. **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** .Now bacon will contain 23

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

**'spam' + 'spamspam'**

**'spam' \* 3**

**Ans** . spamspamspam

Spamspamspam

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

**Ans** .A variable name must start with a letter or the underscore character and cannot start with a number. Therefore 100 is invalid.

1. **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 will evaluate to the integer, floating-point number, and string versions of the value passed to them.

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

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

**Ans** .strings can only be added to strings. So this is the error in the expression. It can be fixed by putting 99 in single quote.