**(a). Explain Session & Cookies and write two differences between them.**

**Answer:**

**Session:** A session starts when you start a browser and spend time visiting multiple web applications or sites and ends once you close your browser window.

**Cookies:** Cookies are used to store data so that it can be used over and over and improve user experience and performance. For example, cookies to store login data so that you don’t have to login again and again.

**Differences:**

|  |  |
| --- | --- |
| **Cookies** | **Session** |
| 1. We can specify time when cookies expire. 2. Cookies store only limited amount of data. | 1. Session ends once we close the browser window. 2. Session can store unlimited amount of data as all data is removed once session ends |

**(c).** **GPA Calculator ImprovedThis program will help calculate students GPA and print their input so they can insure accuracy.**

**Pseudocode:**

Write Prompt “Welcome to the GPA Calculator.

”Write Prompt “How many grades do you need to have averaged?”

Input number of gradesDeclare:Declare Array Grade 100Input loop module:Write

“Please enter your numerical grade (A=4, B=3, C=2, D=1 and, F=0)."

Take Input Subject , credit hours and grades. multiply grade points of each grades with number of credits. sum all the product and divide on total number of credit hours