Unit 13: Week 10:

Assignment 10

You have been asked to complete the following project:

1. Project title:
2. Project details:
3. Sections:

Which one of the following testing techniques is used to detect whether or not a developed application software is correct?

A) Unit testing B) Integration testing C) System testing D) Acceptance testing

Which one of the following is a risk based testing technique?

A) Unit testing B) Integration testing C) System testing D) Acceptance testing

Which of the following is a risk-based testing technique?

A) Unit testing B) Integration testing C) System testing D) Acceptance testing

A project that takes on times a mathematical model is used to assign weights and categories to actions, measuring the value of a variable as specified in the following table:

<table>
<thead>
<tr>
<th>Action</th>
<th>Probability</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>0.2</td>
<td>1</td>
</tr>
<tr>
<td>B</td>
<td>0.3</td>
<td>2</td>
</tr>
<tr>
<td>C</td>
<td>0.5</td>
<td>3</td>
</tr>
</tbody>
</table>

During back test logging of the function, how many valid equation data test cases with valid input are needed for the function?

A) 20 B) 30 C) 40 D) 50

A function named `calculate_salary` takes three input parameters: `hourly_rate`, `hours_worked`, and `tax_rate`. The function returns the salary of an employee after applying the tax rate. Which of the following statements is true?

A) The function will return an `int` value regardless of the input parameters. B) The function will return an `int` value if the input parameters are integers. C) The function will return an `int` value if the input parameters are integers and the `tax_rate` parameter is a decimal. D) The function will return a `double` value if the input parameters are integers and the `tax_rate` parameter is a decimal.

For the function `calculate_salary`, the number of test cases required for each type of data is:

A) Integer B) Float C) Double D) All

A software development project requires a login system. The system should allow users to enter their email and password. Which of the following is the best way to test the login system?

A) Randomly generate test data and check if the system correctly identifies valid and invalid credentials. B) Manually enter test data and check if the system correctly identifies valid and invalid credentials. C) Use a tool to generate test data and check if the system correctly identifies valid and invalid credentials. D) None of the above.

A software development project requires a login system. The system should allow users to enter their email and password. The valid login credentials are:

Email: user1@example.com
Password: secret

A test case for this system is:

1. Enter user1@example.com
2. Enter secret
3. Click the login button

What is the purpose of the test case?

A) To verify that the system is able to handle invalid input for email and password. B) To verify that the system is able to handle valid input for email and password. C) To verify that the system is able to handle special characters in the email address. D) To verify that the system is able to handle different formats for email addresses.