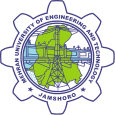
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**Project Management Unit**

**SKILL DEVELOPMENT TRAINING (BATCH-II)**

**Benazir Bhutto Shaheed Human Resources Research and Development Board(BBSHRRDB)**

**Mehran University of Engineering and Technology, Jamshoro**

**Trade: Android APP Development Name of Trainee:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Total Marks: Obtained Marks: Dated:08/12/2022**

**First Monthly Test**

**1. Dart is an Object-Oriented language.**

**A. Yes B. No**

**C. Can be yes or no D. Can not say**

**2. void main() {**

**int x = 100;**

**double y = 100.1;**

**boolean b = (x = y);**

**print(b);**

**}**

**A. true B. false**

**C. Compilation fails**

**D. An exception is thrown at runtime**

**Q3. What are the values of a, b, and c after the following code statements?**

**int a = 5;**

**int b = 10;**

**int c = b;**

**a = a + 1;**

**b = b - 1;**

**c = c + a;**

**a:\_\_\_\_\_\_\_\_\_\_\_\_**

**b:\_\_\_\_\_\_\_\_\_\_\_\_**

**c:\_\_\_\_\_\_\_\_\_\_\_\_**

**Q4. What are the values of first and second at the end of the following**

**code?**

**int first = 8;**

**int second = 19;**

**first = first + second;**

**second = first - second;**

**first = first - second;**

**first \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**second \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Q5. What are the values of i, j, and k after the following code statements?**

**int i = 2;**

**int j = 3;**

**int k = 4;**

**int x = i + j + k;**

**i = x - i - j;**

**j = x - j - k;**

**k = x - i - k;**

**i:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**j:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**k:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Q6. What is the output from the following code?**

**int max;**

**int min = 10;**

**max = 17 - 4 / 10;**

**max = max + 6;**

**min = max - min;**

**print(max \* 2);**

**print(max + min);**

**print(max);**

**print(min);**

**Output:**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Q7.What is the output of the following oddStuff method?**

**void oddStuff() {**

**int number = 4;**

**for (int count = 1; count <= number; count++) {**

**print(number);**

**number = number / 2;**

**}**

**}**

**output:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Q8. Translate each of the following English statements into logical tests**

**that could be used in an if/else statement. Write the appropriate logical**

**test for each statement below. Assume that three int variables, x, y, and z,**

**have already been declared.**

**Example: z is not greater than y's square. z < y\*y**

**a. z is odd.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**b. y is positive. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**c. Either x or y is even, and the other is odd. (Hint: Don't use && or ||.)**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**d. z is not zero. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**e. y is greater in magnitude than z.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**f. x and z are opposite signs. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**g. y is a nonnegative one-digit number. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**h. z is nonnegative. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**i. x is even \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**j. x is closer in value to y than z is. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Q9.Given the following variable declarations:**

**int x = 4;**

**int y = -3;**

**int z = 4;**

**What are the results of the following relational expressions?**

**a) x == 4 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**b) x == y \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**e) x + y > 0 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**f) x - z != 0 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**g) y \* y <= z \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**h) y / y == 1 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**i) x \* (y + 2) > y - (y + z) \* 2 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**10. Write a piece of code that reads a shorthand text description of color and**

**prints the longer equivalent.**

**Acceptable color names are B for Blue, G for Green, and R for Red. If the**

**user types something other than B, G, or R,**

**the program should print an error message. Make your program case insensitive so that the user can type an uppercase or lowercase letter.**

**Here are two example executions:**

**->What color do you want? R**

**You have chosen Red.**

**->What color do you want? Bork**

**Unknown color: Bork**

**Q11.Consider the following method.**

**void ifElseMystery1(int x, int y) {**

**int z = 4;**

**if (z <= x) { z = x + 1; } else { z = z + 9; }**

**if (z <= y) { y++; }**

**print(z + " " + y);**

**}**

**For each call below, indicate what output is produced.**

**ifElseMystery1(3, 20); \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**ifElseMystery1(4, 5); \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**ifElseMystery1(5, 5); \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**ifElseMystery1(6, 10); \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**12. The AND operator requires that both conditions be True for the compound expression to be True.**

**TRUE / FALSE**

**13. And Also is a logical operator that will "Short-circuit" if the first expression is False.**

**TRUE / FALSE**

**14. if statements containing additional ifs are saind to be nested if statements.**

**TRUE / FALSE**

**15. Each Else will be matched with the last unmatched IF, regardless of indentation.**

**TRUE / FALSE**

**16. Dart is originally developed by?**

**A. Microsoft**

**B. Google**

**C. IBM**

**D. Facebook**

**17. Class?**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**18. Object?**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**19. Constructor?**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**20. What is the type of this map?**

**var seasons = { 'spring': 1, 2: 'summer' };**

**A. Map<String, String>**

**B. Map<Object, Object>**

**C. Map<dynamic, dynamic>**

**D. None of these.**

**21. An \_\_\_\_\_\_\_\_ is a real-time representation**

**of any entity.**

**A. class B. method**

**C. object D. None of the above**

**22. These statements using a map are correct:  
var seasons = {‘spring': 1, 'summer': 2 };  
seasons['autumn'] = '3';  
a. Correct  
b. Incorrect**

**23. void main() {**

**var age = 20;**

**if(age >= 18){**

**print("You are voter.");**

**}**

**}**

**24. void main()**

**{**

**int num1 = 1200; int num2 = 1000;**

**int num3 = 150;**

**if (num1 > num2 && num1 > num3){**

**print ("Num 1 is greater: i.e $num1");**

**}**

**if(num2 > num1 && num2 > num3){**

**print("Num2 is greater: i.e $num2");**

**}**

**if(num3 > num1 && num3 > num2){**

**print("Num3 is greater: i.e $num3");**

**}**

**}**

**25.** **class Person {**

**String? name;**

**String? phone;**

**bool? isMarried;**

**int? age;**

**Person(){**

**}**

**Person.info(this.name,this.phone,this.isMarried,this.age);**

**void displayInfo() {**

**print("Person name: $name.");**

**print("Phone number: $phone.");**

**print("Married: $isMarried.");**

**print("Age: $age.");**

**}**

**}**

**Void main(){**

**Person p1 = Person();**

**Person p2 = Person.info(‘Name’,’PhoneNumber’,false,90);**

**p1.displayInfo();**

**p2.displayInfo();**

**}**