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**WESTERFIELD COLLEGE**

**INTERNATIONAL FOUNDATION PROGRAMME**

**2022/2023 Academic Session**

**SECOND SEMESTER EXAMINATION**

**Candidate Name:**

**Candidate Number:**

**Introduction to Computer Programming ICP002 (Sept.Set)**

**May, 2023**

**2hrs**

**INSTRUCTIONS**

* **Answer all the questions**
* **Use a black or blue pen. You may use an HB pencil for any diagram or graph.**
* **Write your name and candidate number in the boxes at the top of the page.**
* **Write your answer to each question in the answer booklet.**
* **Do not use an erasable pen or correction fluid.**
* **Do not write on the margin**
* **You may use calculator.**
* **You should show all your workings and appropriate units.**

**Note: please use your computer for this practical examination and send your code to this WhatsApp no 07066233903 and write the code in your answer booklet respectively.**

**Question one**

**Note: use JavaScript to code this question**

Write a program that asks the user to enter **three numbers** (use three separate input statements). Create variables called **total** and **average** that hold the **sum** and **average** of the three numbers and print out the values of total and average.

**Question two:**

Print a box like the one below.

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**Question three:**

Write a program that uses a for loop to print the numbers 100, 98, 96, . . . , 4, 2. 7.

**Question four:**

Write a program that uses exactly four for loops to print the sequence of letters below. **AAAAAAAAAABBBBBBBCDCDCDCDEFFFFFFG**

**Question five**

Use a for loop to print a box like the one below. Allow the user to specify how wide and how high the box should be. [Hint: print('\*'\*10) prints ten asterisks.]

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**Question six**

Use for loops to print a diamond like the one below. Allow the user to specify how high the diamond should be

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**Question seven**

Ask the user to enter a number x. Use the sep optional argument to print out x, 2x, 3x, 4x, and 5x, each separated by three dashes, like below.

**Enter a number: 7**

**7- - -14 - - -21 - - -28 - - -35**

**Question eight**

Is it true that Python supports three types of numeric literals integer, float and complex.\_\_\_\_\_\_\_\_\_\_\_\_

**Generate output for this code**

1. # Integer literal
2. a = 10
3. #Float Literal
4. b = 12.3
5. #Complex Literal
6. x = 3.14j
7. y=a\*a/b
8. **print**(a)
9. **print**(b)
10. **print**(x)
11. **print(y)**

**Output:**

**Question Nine**

**What will be the outputs of this code**

1. p = (1 == True)
2. q = (1 == False)
3. r = True + 3
4. s = False + 7
6. **print**("p is", p)
7. **print**("q is", q)
8. **print**("r:", r)
9. **print**("s:", s)

**OUTPUT**

**Question Ten**

**What will be output of this code**

1. string = "  javatpoint "
2. string2 = "    javatpoint        "
3. string3 = "       javatpoint"
4. **print**(string)
5. **print**(string2)
6. **print**(string3)
7. **print**("After stripping all have placed in a sequence:")
8. **print**(string.strip())
9. **print**(string2.strip())
10. **print**(string3.strip())

**OUTPUT**