# *Hands-On Prerequisite Python in AI*

# *Exercises 01 & 02*

***Deadline: 2023 18 April***

***Score: 670***

*2023 11 April*

# *Hands-On Prerequisite Python in AI*

# *Exercises 01*

***Score: 420***

*2023 11 April*

# Question 1 (Basics)



**For each of the following variables, first show the type of the variable, then change it to the requested type and show the type again.**

**Points:**

✓ **Use type()**

- **Change to float and integer:**

num1 = 12.6
num2 = “050”
num3 = “20.”
student_num = “s98234”
flag = True

- **Change to boolean:**

num1 = -20
num2 = 00
flag = “False”

# Question 2 (Basics)



**Display average of the following three variables in the output.**

**num1 = 20**
**num2 = 19.**
**num3 = “18.5”**

# Question 3 (Basics)



**Define two variables with integer values, then display True if the first variable is greater than the second and display False if it is smaller.**

**Points:**

- ✓ **Without use <u>if</u>**

# Question 4 (Basics)

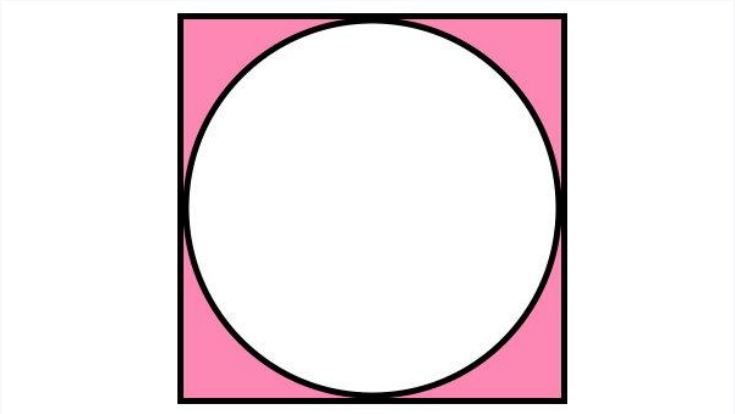


**By getting the length and width of a rectangle, calculate and display its perimeter and area.**

# Question 4 (Basics)



**In the figure below, calculate the area of the colored part by getting the radius of the circle.**



# Question 5 (Basics)



**In the following three lines, display the value of num1, num2, num3.**

**Points:**

- **If you have an error, explain the reason and fix the error.**

**num1 = num2 = num3 = 200**
**num1 , num2 , num3 = 10, 20, 145**
**num1 , num2 , num3 = 30, 100**

# *Hands-On Prerequisite Python in AI*

# *Exercises 02*

***Deadline:2023 18 April***
***Score:250***

*2023 11 April*

# Question 1 (Conditions)



**Get a number from input and display its absolute value.**

# Question 2 (Conditions)



**Get three numbers from the user and display the number that is between the other two numbers in the output.**

# Question 3 (Conditions)

100

**Define a username and password. Then get username and password from the user, if you match the defined information, display a welcome message, and if the information is wrong, display one of the following messages.**

**If the username was wrong:** “The username entered is wrong”
**If the password was wrong:** “The entered password is wrong”
**If the username and password were wrong:** “the entered information is wrong”

*Thanks*

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***Good luck!***

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