



Hands-On Prerequisite Python in AI

Exercises 01 & 02

Deadline: 2023 18 April

Score: 700

2023 11 April



Hands-On Prerequisite Python in AI

Exercises 01

Score: 450

2023 11 April

Question 1 (Basics)

100

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)

50

Display average of the following three variables in the output.

num1 = 20

num2 = 19.

num3 = “18.5”

Question 3 (Basics)

50

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 if**

Question 4 (Basics)

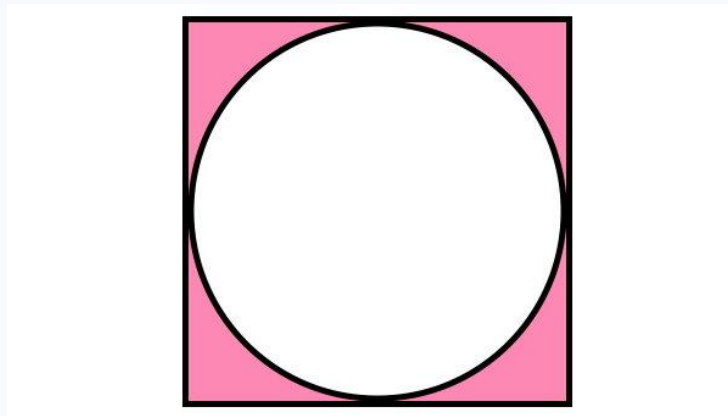
80

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

Question 5 (Basics)

80

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



Question 6 (Basics)

90

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)

70

Get a number from input and display its absolute value.

Question 2 (Conditions)

80

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 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

Good Luck!
