

Python-Lab 1.1

Task 1 :

Python_Lab_1.1

▼ Task 1

1. Print a welcome message.
2. Create variables to store the following details:
 - Your name (string)
 - Your age (integer)
 - Your height (float)
 - Whether you are a student (boolean)
3. Print these details.

```
[4]: # write your code here ^_^
print ("welcome to python")

name = "Abdullah"
Age = 23
height = 171.1
student = True

print("Name:", name, "Age:", Age, "Height:", height, "Student:", student)

welcome to python
Name: Abdullah Age: 23 Height: 171.1 Student: True
```

Task 2 :

Task 2

1. Create a list of 5 favorite fruits.
2. Create a list with the price of each fruit.
3. Print the data types of these lists.

```
[12]: # write your code here ^_^
favorite_fruits = ["Mango", "Banana", "Peach", "Watermelon", "Pineapple"]
fruit_prices = [5.4, 1.10, 1.20, 3, 2.00]

for fruit in favorite_fruits:
    print(type(fruit))
for fruit_p in fruit_prices:
    print(type(fruit_p))

<class 'str'>
<class 'str'>
<class 'str'>
<class 'str'>
<class 'str'>
<class 'float'>
<class 'float'>
<class 'float'>
<class 'int'>
<class 'float'>
```

Task 3 :

```
[14]: # write your code here ^_^
favorite_fruits = ["Mango", "Banana", "Peach", "Watermelon", "Pineapple"]
print("Fruit names:")
for fruit in favorite_fruits:
    print(fruit)

while True:

    answer = input("What is the product of 7 * 24? ")

    if answer.strip() == str(7 * 24):
        print("You answered this question correctly.")
        break
    else:
        print("Your answer is wrong. Try again...")

number = 5
for i in range(number, 0, -1):
    for j in range(i, 0, -1):
        print(j, end=' ')
    print()
```

```
Fruit names:
Mango
Banana
Peach
Watermelon
Pineapple
What is the product of 7 * 24? 70
Your answer is wrong. Try again...
What is the product of 7 * 24? 168
You answered this question correctly.
5 4 3 2 1
4 3 2 1
3 2 1
2 1
1
```

Task 4 :

Task 4

You want to recommend a movie to a friend based on the rating and popularity. To accomplish this do the following:

- Create a variable for the movie (choose any movie you like).
- Create a variable of type int to hold the rating of the movie out of 5. Give this movie rate = 3
- Create a popularity score of type float, let it be 72.65
- Using an if statement:
 - Check if the movie rating is 4 or greater and the popularity is greater than 80, print "Highly recommended".
 - Else if the movie rating is 3 or greater and the popularity is greater than 70, print "I recommended it, It is good".
 - Else if the movie rating is 2 or less and the popularity is greater than 60, print "You should check it out!".
 - Else the movie rating is 2 or less and the popularity is less than 50, print "Don't watch it, It is a waste of time".

```
[27]: # write your code here ^_^
movie = "Top Gun: Maverick"
rating = 3
popularity = 72.65

if rating >= 4 and popularity > 80:
    print("Highly recommended")
elif rating >= 3 and popularity > 70:
    print("I recommend it, It is good")
elif rating <= 2 and popularity > 60:
    print("You should check it out!")
else:
    print("Don't watch it, It is a waste of time")
```

```
I recommend it, It is good
```