Name: Dhivyadharsini Satheesh

Name: Dhivyadharsini Satheesh

Regno:21BCE0776

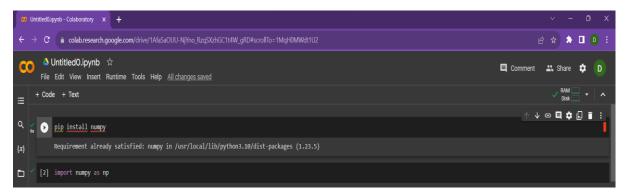
Branch: B. tech computer science and Engineering

Email Address: dhivyadharsini.sk2021@vitstudent.ac.in

**Campus Name: VIT Vellore** 

### Question:1

{ "cells": [ { "cell\_type": "markdown", "metadata": { "colab\_type": "text", "id": "mMcWEbFiLKvn" }, "source": [ "# NumPy Exercises \n", "\n", "Now that we've learned about NumPy let's test your knowledge. We'll start off with a few simple tasks, and then you'll be asked some more complicated questions." ] }, { "cell\_type": "markdown", "metadata": { "colab\_type": "text", "id": "DvBjXHM1LKvw" }, "source": [ "#### Import NumPy as np" ] }, { "cell\_type": "code", "execution\_count": 0, "metadata": { "colab": {}, "colab\_type": "code", "id": "StInvTamLKv0" } this is question I need the code in python and output "outputs": [], "source": [] }



#### Question:2

{ "cell\_type": "markdown", "metadata": { "colab\_type": "text", "id": "qav3VCgyLKv5" }, "source": [ "#### Create an array of 10 zeros " ] }

```
import numpy as np

# Create an array of 10 zeros
zeros_array = np.zeros(10)

# Display the array
print(zeros_array)

[0. 0. 0. 0. 0. 0. 0. 0. 0. 0.]
```

Name: Dhivyadharsini Satheesh

### Question:3

```
{ "cell_type": "code", "execution_count": 0, "metadata": { "colab": {}, "colab_type": "code", "id": "gLIF23CdLKv6", "outputId": "824bc0c2-05e8-4a2f-b02c-803eb133cb1e" }, "outputs": [ { "data": { "text/plain": [ "array([ 0., 0., 0., 0., 0., 0., 0., 0., 0., 0.])" ] }
```

```
[4] zeros_array = np.zeros(10)

# Display the array
zeros_array

array([0., 0., 0., 0., 0., 0., 0., 0., 0.])
```

### Question:4

```
{ "cell_type": "code", "execution_count": 0, "metadata": { "colab": {}, "colab_type": "code", "id": "gLIF23CdLKv6", "outputId": "824bc0c2-05e8-4a2f-b02c-803eb133cb1e" }, "outputs": [ { "data": { "text/plain": [ "array([ 0., 0., 0., 0., 0., 0., 0., 0., 0., 0.])" ] }, "execution_count": 2, "metadata": { "tags": [] }, "output_type": "execute_result" } ], "source": [] }
```

Name: Dhivyadharsini Satheesh

#### Question:5

{ "cell\_type": "markdown", "metadata": { "colab\_type": "text", "id": "-r7m8k4vLKv\_" }, "source": [ "#### Create an array of 10 ones" ] }

### Question:6

```
[6] # Create an array of 10 ones
    ones_array = np.ones(10)

# Display the array
    ones_array

array([1., 1., 1., 1., 1., 1., 1., 1., 1.])
```

Name: Dhivyadharsini Satheesh

### Question:7

```
{ "cell_type": "code", "execution_count": 0, "metadata": { "colab": {}, "colab_type": "code", "id": "iwuCBhvcLKwB", "outputId": "2358e05b-b357-4b0e-d4c4-fefc91889469" }, "outputs": [ { "data": { "text/plain": [ "array([ 1., 1., 1., 1., 1., 1., 1., 1., 1., 1.])" ] }, "execution_count": 3, "metadata": { "tags": [] }, "output_type": "execute_result" } ], "source": [] }
```

#### Question:8

{ "cell\_type": "markdown", "metadata": { "colab\_type": "text", "id": "Flcddv6lLKwO" }, "source": [ "#### Create an array of 10 fives" ] }

Name: Dhivyadharsini Satheesh

### Question:9

```
{ "cell_type": "code", "execution_count": 0, "metadata": { "colab": {}, "colab_type": "code", "id": "tXDJ5b8cLKwU", "outputId": "f784a7d9-a26d-4d97-eeee-15e78e84b014" }, "outputs": [ { "data": { "text/plain": [ "array([ 5., 5., 5., 5., 5., 5., 5., 5., 5., 5.])" ] }
```

### Question:10

{ "cell\_type": "code", "execution\_count": 0, "metadata": { "colab": {}, "colab\_type": "code", "id": "tXDJ5b8cLKwU", "outputId": "f784a7d9-a26d-4d97-eee-15e78e84b014" }, "outputs": [ { "data": { "text/plain": [ "array([ 5., 5., 5., 5., 5., 5., 5., 5., 5., 5.])" ] }"execution\_count": 4, "metadata": { "tags": [] }, "output\_type": "execute\_result" } ], "source": [] }

Name: Dhivyadharsini Satheesh

### Question:11

{ "cell\_type": "markdown", "metadata": { "colab\_type": "text", "id": "4UInvEwQLKwg" }, "source": [ "#### Create an array of the integers from 10 to 50" ] }

### Question:12

{ "cell\_type": "code", "execution\_count": 0, "metadata": { "colab": {}, "colab\_type": "code", "id": "Z9kAbHHiLKwj", "outputId": "1b2d4a50-b3c4-44af-dd3b-643a6546d019" }, "outputs": [ { "data": { "text/plain": [ "array([10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26,\n", " 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43,\n", " 44, 45, 46, 47, 48, 49, 50])" ] }