Bahria University, Islamabad

Department of Software Engineering

Artificial Intelligence Lab

(Fall-2021)

Teacher: Engr. M Waleed Khan

Student : M Iqrar Ijaz Malik

Enrollment : 01-131182-021

Lab Journal: 5

Date: 10-11-2021

Task No:	Task Wise Marks		Documentation Marks		Total Marks (20)
	Assigned	Obtained	Assigned	Obtained	
1	7		5		
2	8				

Comments:

Signature

LAB

Lab No: 5

IMPLEMENTING LAMBDA EXPRESSIONS AND GENERATOR FUNCTIONS

Introduction

- A lambda function is a small anonymous function. A lambda function can take any number of arguments but can only have one expression.
- Lambda functions are used when you need a function for a short period of time. This is commonly used when you want to pass a function as an argument to higher-order functions, that is, functions that take other functions as their arguments.

OBJECTIVE:

- Introduce the basics of python.
- Code in python.
- Implement the Lamda Function in Python

Tools Used

Tool used to perform this task is **PyCharm Community Addition**

Task 1: Implement a lambda expression to calculate square of given number.

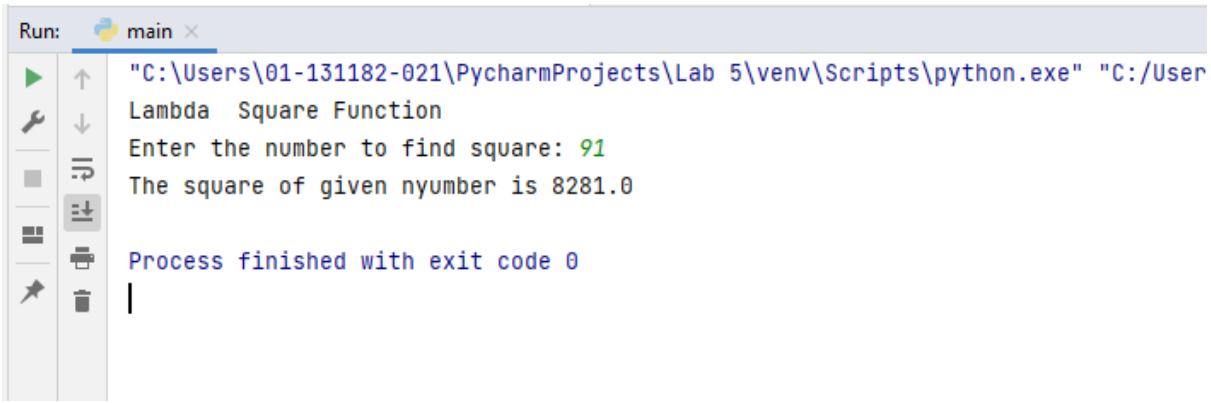
Code

main.py

```
print("Lambda  Square Function")
r=float(input("Enter the number to find square: "))
# Lambda function to calculate square of a number
square = lambda x: x ** 2
print(f"The square of given nyumber is {square(r)}")

```

Screenshot

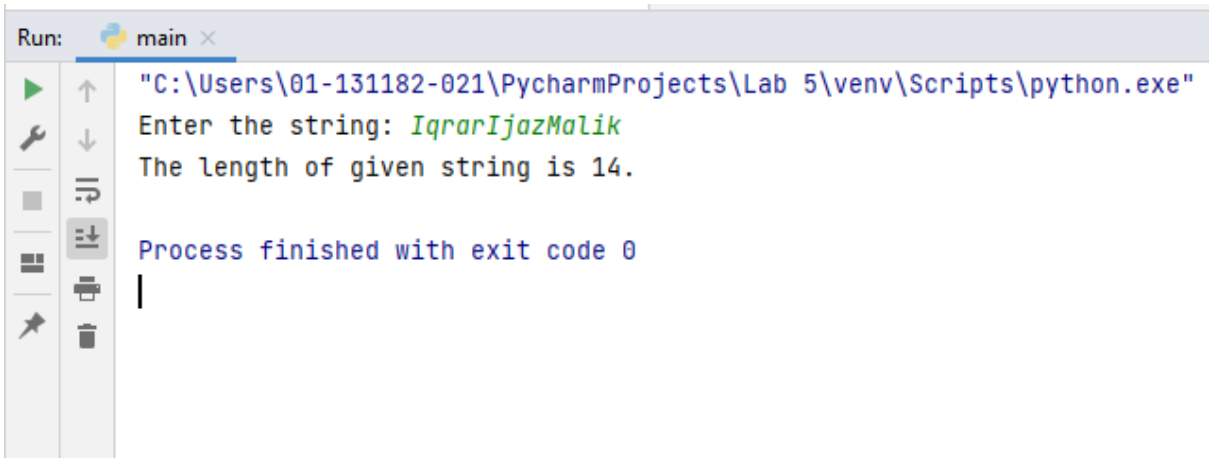


Task 2: Implement a lambda expression to calculate square of given number.

Code:

```
6
7
8   value=(input("Enter the string: "))
9   # Lambda function to calculate square of a number
10  length = lambda x: len(x)
11  print(f"The length of given string is {length(value)}.")
```

Output:



Conclusion

I completed the tasks given to us and pasted the output above.