

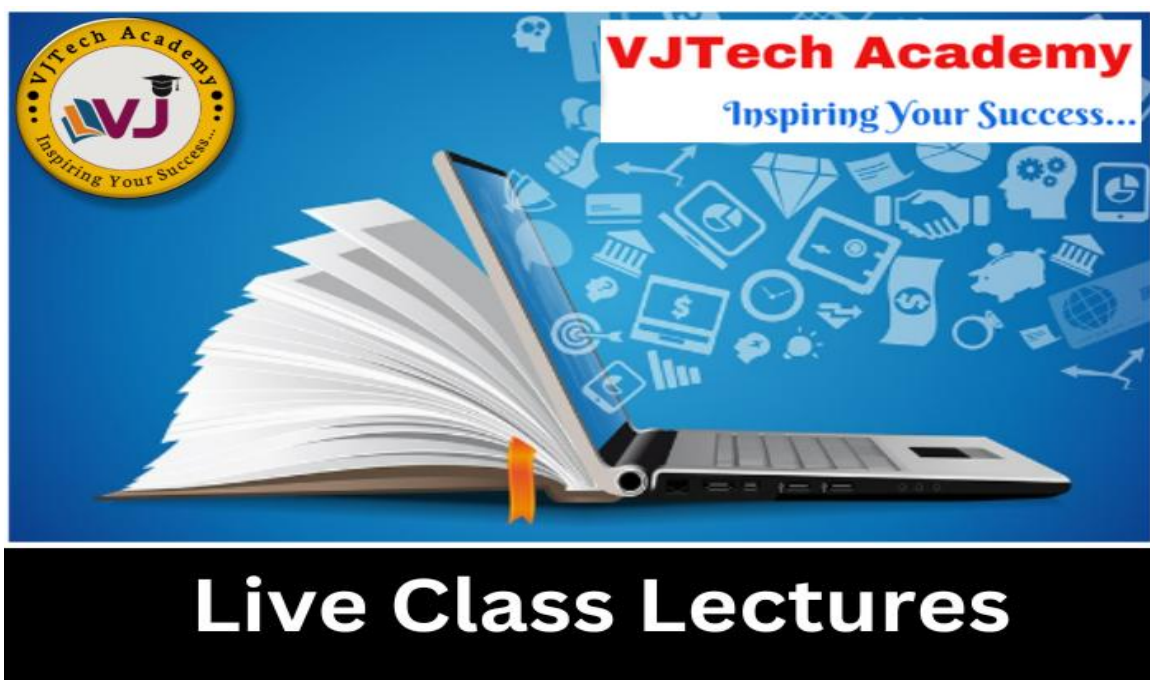


विशाल जाधव सरांचे

VJTech Academy

Inspiring Your Success...

“Python Programs- Functions with Basic OOP concepts”



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UNIT-IV Programs

❖ Program: Write Python Program to show the use of function.

```
# Perform addition using function

def Addition():
    x=int(input("Enter first number:"));
    y=int(input("Enter second number:"));
    z=x+y;
    print("Addition=",z);

Addition();
```

OUTPUT

```
Enter first number:10
Enter second number:12
Addition= 22
```

❖ Program: Write Python Program to show the use of Arithmetic Operations using Functions.

```
#Arithmetic Operations using Functions
def Addition(a,b):
    c=a+b;
    print("Addition=",c);
def Subtraction(a,b):
    c=a-b;
    print("Subtraction=",c);
def Multiplication(a,b):
    c=a*b;
    print("Multiplication=",c);
```

UNIT-IV Programs

```
def Division(a,b):  
    c=a/b;  
    print("Division=",c);
```

```
Addition(10,5);  
Subtraction(10,5);  
Multiplication(10,5);  
Division(10,5);
```

OUTPUT

```
Addition= 15  
Subtraction= 5  
Multiplication= 50  
Division= 2.0
```

❖ **Program: Write Python Program to show the use of Default argument.**

```
#Default Argument  
def Display(name,age=32):  
    print("Name:",name);  
    print("Age:",age);
```

```
Display("James",45);
```

OUTPUT

```
Name: James  
Age: 45
```

UNIT-IV Programs

❖ Program: Write Python Program to check is even or odd using function .

```
#program to check number is even or odd using function
def CheckEvenOdd():
    no=int(input("Enter any number:"));
    if(no%2==0):
        print("Number is EVEN");
    else:
        print("Number is ODD");

CheckEvenOdd();
```

OUTPUT

```
Enter any number:10
Number is EVEN
```

❖ Program: Write Python Program to show the use of keyword Arguments (function).

```
#Keyword arguments (Function)
def Display(name,age):
    print("Name:",name);
    print("Age:",age);
Display(name="Mohan",age=32);
```

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UNIT-IV Programs

OUTPUT

Name: Mohan

Age: 32

❖ **Program: Write Python Program to show the use of math function.**

```
import math;
m=max(20,35);
print("Largest Number=",m);
m=min(20,35);
print("Smallest Number=",m);
m=pow(2,3);
print("Power of 2^3 =",m);
m=round(20.55);
print("Rounded Number=",m);
m=abs(-23);
print("Abs Result=",m);
m=math.ceil(8.1);
print("Ceil Number=",m);
m=math.floor(8.1);
print("Floor Number=",m);
```

OUTPUT

Largest Number= 35
Smallest Number= 20
Power of 2^3 = 8
Rounded Number= 21
Abs Result= 23
Ceil Number= 9
Floor Number= 8

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UNIT-IV Programs

❖ **Program: Write Python Program check wether no is prime or not.**

```
#Prime number program using Function
def CheckPrimeNo():
    no=int(input("Enter any number:"));
    flag=0;
    for i in range(2,no):
        if no%i==0:
            flag=1;
            break;
    if flag==0:
        print("Number is Prime");
    else:
        print("Number is not Prime");
```

```
CheckPrimeNo();
```

OUTPUT

```
Enter any number:20
Number is not Prime
```

UNIT-IV Programs

Program: Write Python Program of find factorial of given number.

```
#recursion function : find factorial of given number
def fact(n):

    if n==0:
        return(1);
    else:
        return(n*fact(n-1));
result=fact(5);
print("Factorial of given number:",result);
```

OUTPUT

Factorial of given number: 120

❖ **Program: Write Python Program to show the use of function Arguments.**

```
#required positional arguments (Function)
def Addition(a,b):
    c=a+b;
    print("Addition=",c);
Addition(10,20);
```

OUTPUT

Addition =30

UNIT-IV Programs

❖ Program: Write Python Program to show the use of return statement.

```
#return statement
def Addition():
    a=int(input("Enter first number:"));
    b=int(input("Enter second number:"));
    c=a+b;
    return(c);

m=Addition();
print("Addition of two numbers:",m);
```

OUTPUT

```
Enter first number:10
Enter second number:10
Addition of two numbers: 20
```

❖ Program: Write Python Program to show the use of scope of variable.

```
#scope of variable
a=100;           #Global variable
def display():
    b=200;       #local variable
```

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```
print("Local Variable b = ",b);  
print("Global Variable a= ",a);  
  
display();
```

OUTPUT

```
Local Variable b = 200  
Global Variable a= 100
```

❖ Program: Write Python Program to show the use of variable length Arguments (function).

```
#Variable Length Arguments (function)  
def Display(*m):  
    print("Value of m:",m);  
Display(100,200,300,400,500,600,700,800,900);
```

OUTPUT

```
Value of m: (100, 200, 300, 400, 500, 600, 700, 800, 900)
```

❖ Program: Write Python Program to show the use of User defined function.

```
# User defined function concept  
  
def VJTech():
```

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UNIT-IV Programs

```
print("This is user defined function");
```

```
VJTech();
```

OUTPUT

This is user defined function