# Name: Tausif Khan

Rollno: 12

Branch: SE/COMPS Subject - OSTL

Div: B

**EXPERIMENT NO: 5A**

**AIM:**

1. A Python program to calculate the gross and net salary of an employee using Functions
2. A Python program to calculate BMI Index using the following parameters:

* Passing parameters normally
* Passing parameters using default values
* Passing parameters using keywords

**TOOLS USED:** Python 3.4.3, Terminal

**THEORY:**

* Function

A function is a set of statements that take inputs, do some specific computation and produces output. The idea is to put some commonly or repeatedly done task together and make a function, so that instead of writing the same code again and again for different inputs, we can call the function.  
Python provides built-in functions like print(), etc. but we can also create your own functions. These functions are called user-defined functions.

* Passing parameters in a function
* Different types of passing parameters

**CODE:**

**a)**

|  |
| --- |
| basic=int(input("Enter your basic salary: "))  def hras(basic):  hra=basic\*15/100  return(hra)  def das(basic):  da=basic\*80/100  return(da)  def taxs(basic):  tax=basic\*10/100  return(tax)  def pfs(basic):  pf=basic\*15/100  return(pf)  def gross(basic):  gross=basic+das(basic)+hras(basic)  return gross  def net(basic):  net=gross(basic)-taxs(basic)-pfs(basic)  return net  print('The gross salary:',gross(basic))  print('The net salary:',net(basic)) |

b)

|  |
| --- |
| def bmi\_index(h=6,w=70):  return w/h\*\*2  ## remember weight in kgs and height in meters  print('BMI Index:',bmi\_index(7,68))  print('BMI Index:',bmi\_index())  print('BMI Index:',bmi\_index(w=70,h=8)) |

**OUTPUT:**

**a)**

Enter your basic salary:10000

The gross salary: 19500.0

The net salary: 17000.0

**b)**

BMI Index: 1.3877551020408163

BMI Index: 1.9444444444444444

BMI Index: 1.09375

**CONCLUSION:**

Hence we have successfully implemented the following python program.