

Lab Assignment

Conditional Control-Python Programming (Unit 2)

Objective:

- To be familiar with the condition control syntax in Python.
- Formulating short programs of decision control.

List of Programs:

Sl No	Program	Input/Output Sample		
1	WAP to determine a student's final grade and indicate whether they are passing or failing. The final grade is calculated as the average of marks of four subjects.	Enter marks of subject 1: 50 Enter marks of subject 2: 60 Enter marks of subject 3: 65 Enter marks of subject 4: 75 Your Grade is: 62.5 Congratulation You have Passed	Enter marks of subject 1: 30 Enter marks of subject 2: 50 Enter marks of subject 3: 20 Enter marks of subject 4: 30 Your Grade is: 32.5 Sorry You Failed	
2	WAP to find the largest number between two inputted numbers.	Enter first number: 20 Enter second number: 15 First number is largest	Enter first number: 30 Enter second number: 55 Second number is largest	
3	WAP that reads two numbers and an arithmetic operator and displays the result.	Enter first number: 10 Enter second number: 20 Enter operator: * Result:200	Enter first number: 10 Enter second number: 20 Enter operator: + Result:30	
4	Write a program to accept a character from the user and display whether it is a vowel or consonant.	Enter a character: a a is a vowel	Enter a character: E E is a vowel	Enter a character: s s is a consonant
5	WAP to input a number and check whether the number is 2 digit number or not.	Enter a number: 5 The given number is not two digit	Input: Enter a number: 20 Output: the given number is two digit number	
6	WAP to input a number and check whether the number is divisible by 5 and 3 or not.	Enter a number: 30 The given number is divisible by 3 and 5	Enter a number: 20 The given number is not divisible by 3 and 5	
7	WAP to input 3 numbers and find the second smallest.	Enter three numbers: 50 12 45 45 is the second smallest	Enter three numbers: 20 10 30	

			20 is the second smallest
8	WAP to input marks of 5 subject and find average and assign grade. Average Marks Grade 90 & above O 80 – 89 E 70-79 A Below 70 B	Enter the marks of five subjects: 79 69 85 72 88 Grade is A	Enter the marks of five subjects: 50 30 45 50 48 Grade is B
9	WAP to input consumed unit and calculate Electricity Bill, where monthly rent Rs. 300. Unit Charge per unit(Rs.) Upto 300 7 301- 800 9 801-1500 12 1501 & above 15	Enter your consumed unit: 450 Your total bill is: 3450 [300*7+(450-300)*9=3450]	Enter your consumed unit: 10 Your total bill is: 300 [10*7=70. But Monthly rent Rs. 300 Consumer has to pay minimum Rs 300]
10	WAP to input 3 side of a triangle and prints its type (i.e Equilateral/Isosceles/Scalene).	Enter the length of three side of the triangle: 20 20 20 Output: Equilateral	Enter the length of three side of the triangle: 20 42 20 Output: Isosceles