Vidyalankar School of Information Technology
SYBSc IT Semester III
Subject: *Python Programming*
Faculty Members: Geeta S, Leena J & Ashwini K

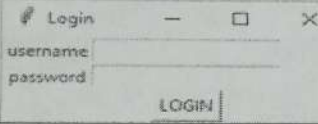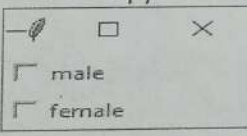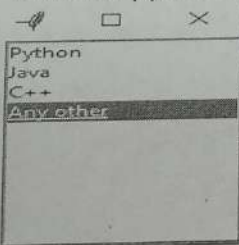### Remedial Questions

Unit – I	
1	Explain any five features of Python Programming.
2	Explain the if, elif, nested, if-else statements & for loop with an example.
3	Explain arithmetic, Logical, Membership, Relational & Assignment operators in python.
4	Describe control statements in python.
5	Write a python program to print factorial of a number. Take input from user.
6	Write a python program to calculate the area of a circle and print the result. Take input from user.
7	List the datatypes in python. Explain any two datatypes with an example. Also explain the range() function with an example.
8	Write a python program to calculate the area of a circle and print the result. Take input from user.

Unit – II	
1	What is a function. Write syntax to define a function with an example. What are the features of functions? Write a program to explain a function.
2	Explain Boolean function & import statement with an example.
3	Explain the following math functions with example i)pow() ii)sqrt() iii)floor() iv)ceil() v)fabs()
4	Write a python program to check whether a number is a Palindrome or not. Take input from user.
5	Explain following string functions with example i)isdigit() ii)upper() iii)rstrip() iv)find() v) split()
6	Write a python program to reverse a number. Take input from user.
7	Write a program to count number of alphabets and number of digits in the string 'VSIT2022'
8	Write the output for following string operations. s = 'HelloWorld' i) s[::-1] ii) s[2:8:2] iii) s[8:1:-1] iv) s[8:1:-2] v) s[-4:-2]

Unit – III	
1	What are lists? Give an example to access the elements of list. Explain the following functions of list with example: append() ii) extend() iii)insert() iv) del() v) clear() and vi) remove().
2	How to create dictionary in python? Give example. Also Explain mkdir(), chdir() and rmdir() methods in python.
3	Write a program that prints out all the elements from the list that are less than 5.
4	Write a python code to get the following dictionary as output {1:1,3:9,5:25,7:49,9:81}
5	Describe different access modes of file handling.
6	Define dictionary. Explain following dictionary methods with example: keys(), values(), update(), pop(), clear() & copy()
7	Describe different access modes of file handling.
8	Explain exception handling block in Python with the help of an example

Unit – IV	
1	What is constructor? Explain the rules for creating a constructor.
2	What is Inheritance? Explain Multilevel & Hybrid inheritance with a suitable example
3	Write a Python class named Circle constructed by a radius and two methods which will compute the area and the perimeter of a circle
4	Write a short note on thread module.
5	Explain match function with example.
6	With the help of program demonstrate the concept of method overriding
7	Explain search function & class attribute with example.
8	Write a Python class which has two methods get_String and print_String. get_String accept a string from the user and print_String print the string in upper case
Unit – V	
1	Explain the place, pack & grid layout manager in python with the help of an example
2	Describe radio button & checkbox widget with example
3	Write a short note on scale & scroll bar widget
4	Write a source code in python to create Login Screen.
5	Write a python code to do the following i) Create a table student with columns as Roll_No (integer,not null),Marks(int,not null,)in MySql and insert 3 rows. ii)Retrieve the rows of student whose marks are greater than 60
6	Write a Python code to do the following: i) Create table product with columns as product_name (not null,varchar(20)),product_price(not null,integer) in MYSQl and insert three rows. ii) Update respective row to product_price=50 where product_name="soap"
7	Write the python code to get the following output.
8	Write the python code to get the following output.

Signature of Faculty Members

Name:

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