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FACULTY OF ENGINEERING & TECHNOLOGY

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Practicle No: 01

Title :- Write an overview to the python programming or demonstration of its own practical application through creating of a program that print basic information of student.

Theory:- Python is high-level, interpreted programming language known for its simplicity, readability and versatility, it was created by Guido Van Rossum and first released in 1991. Python design philosophy emphasizes code readability and encourages programmers to write clear and concise code.

Program:-

```
name = "Ram";
age = "20";
addr = "Panvel";
phno = 8456345676;
print ("Student name": name);
print ("Student age": age);
print ("Student address": addr);
print ("Student phone number": phno);
```

Result: The code get compiled without any error.

Practical No:02

Title : Implementation of python program capable of printing the detailing the information of student c input must be through the user.

Program:

```
name = (input ("Enter the student name:"));
age = (input ("Enter the student age:"));
ads = (input ("Enter the student address:"));
dep = (input ("Enter the student department:"));
enrl = (input ("Enter the student enrollment no:"));
cos = (input ("Enter the student course:"));

print ("Student name: 'name'");
print ("Student age: 'age'");
print ("Student address: 'ads'");
print ("Student department: 'dep'");
print ("Student enrollment no: 'enrl'");
print ("Student course: 'cos');
```

Result: Code got compiled without any error.

Practical no : 03

Title : Implementation of python program to print, grade of a student on the basis of following data input of 5 subject, marks.

Programs :

```
python = int(input("Enter the marks of python:"));
Java = int(input("Enter the marks of Java:"));
DAA = int(input("Enter the marks of DAA:"));
dw = int(input("Enter the marks of Data Warehousing"));
CN = int(input("Enter the marks of Computer Net"));
avg = (python + Java + DAA + dw + CN)/5;
print("The average is:", avg);
if(avg >= 90):
    print("Grade is O");
else if (avg >= 80 and avg < 90):
    print("Grade is A");
else if (avg >= 70 and avg < 80):
    print("Grade is B");
else if (avg >= 60 and avg < 70):
    print("Grade is C");
else if (avg >= 40 and avg < 60):
    print("Grade is D");
else:
    print("Fail");
```

A

Result : The code got compiled without any error

Practical No. 4

Title : Implement Multiplication table in python programming that accept input from user and display the multiplication table.

Program :

```
num = int(input("Enter a number for multiplication table :"))
for i in range(1, 11):
    print(num, "x", i, " = ", num*i)
```

Output :

Enter a number for multiplication table : 5

$$5 \times 1 = 5$$

$$5 \times 2 = 10$$

$$5 \times 3 = 15$$

$$5 \times 4 = 20$$

$$5 \times 5 = 25$$

$$5 \times 6 = 30$$

$$5 \times 7 = 35$$

$$5 \times 8 = 40$$

$$5 \times 9 = 45$$

$$5 \times 10 = 50$$

Result :

Code execution successful.

Practical No. 5

Title: Implement the python programs that checks the entered string is palindrome or not.

Program:

```
num = int(input("Enter a number to print"))
String = str(input("Enter a String :"))
rev = ""
for x in String:
    rev = x + rev
if (String == rev):
    print("This is palindrome")
else:
    print("This is not palindrome")
```

Output:

Enter a string : radar

This is palindrome

Result:

This code got compiled successfully without any error.

Practical No: 6

Title : Implement the python program to print the fibonacci Sequence (Take input from user).

Program:

```
num = int(input("Enter a number to print fibonacci:"))
a = 0
b = 1
for i in range(0, num):
    print(a)
    temp = a + b
    a = b
    b = temp
    if a >= num:
        break
```

Output:

Enter a number to print fibonacci : 8
0 1 1 2 3 5 8

Result:

This code got compiled successfully without any error.

Practical No:7

Title: Implement python function to find factorial of number entered by user

Program:

```
num = int(input("Enter a number to print factorial :"))
def fact(num):
    x = 1
    for y in range(1, num + 1):
        x = x * y
    print(x)
fact(num)
```

Output:

```
Enter a number, to print factorial : 8
40320
```

Result:

This code got compiled successfully without any error.

Practical No: 8

Title : Implement the python function that finds the maximum of four number (pass the values in functions).

Program :

```
def two(x,y):  
    if x > y:  
        return x  
    return y  
print(two(3,7))  
def three(x,y,z):  
    print(two(x,two(y,z)))  
three(5, 8, 2)  
def four(w,x,y,z):  
    print(two(w,three(x,y,z)))  
four(8,9,10,44)
```

Output :

```
7  
8  
44
```

Result :

This code not compiled successfully, without any error.

Title: Implement the python program to print the element of an array.

About the Program:

1. Initially, declare an array with the respective elements or values such that the array size is not exceeded. Note that all the elements that are considered within the array should belong to same datatype.
2. In order to traverse throughout the array, starting from the first element with the index "0" to the last element with index " $n-1$ ", a loop must be taken in which the loop variable is incremented in each iteration representing the index of the element starting from 0.

Program:

```
arr = [1, 2, 3, 4, 5, 6, 7, 8, 9, 10]
```

```
size = len(arr)
```

```
print("The integral elements present in the array are: ")
```

```
for i in range(0, size):
```

```
    print(arr[i])
```

Expected Output:

The integral elements present in the array are:

1

2

3

4

5

6

7

8

9



X✓

10

Title: Implement the python program to print the reverse elements of an array.

About the Program:

Here's an elaboration on implementing a python program to print the elements of an array in reverse order:

1. Define the Array

Similar to printing elements in forward order, you start by defining an array.

2. Iterate over the Array in Reverse :

To print the elements of the array in reverse order, you need to iterate over the array starting from the last element and moving towards the first elements.

Program:

```
my_list = [21, 32, 43, 54, 75]
print("The list is :")
for i in range(0, len(my_list)):
    print(my_list[i])
print("The list after reversal is :")
for i in range(len(my_list)-1, -1, -1):
    print(my_list[i])
```

Expected output: The list is : 21

32

43

54

75



~~The list after reversal is : 75, 54, 43, 32, 21~~