

Python Lab assessment 1

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MCA I-Sem (R)

(Program – 1)

Write suitable statements in Python to assign multi line string to a variable and display the value assigned to the string variable.

```
a'''Hello My Name is Purushottam Kumar.  
I live in patna.  
I study in CEG Campus'''  
  
print(a)
```

(Program – 2)

Write a program to read two floating point numbers. Add these numbers and assign the result to an integer. Finally display the value of all the three variables.

```
x=float(input(" Enter First Number : "))  
y=float(input(" Enter Second Number : "))  
summ = int(x+y)  
print("\n First Number : ",x," Second Number : ",y)  
print("\n Sum : (" +str(x) + " + " + str(y) +") = " + str(summ))
```

(Program – 3)

Write a Python program that accepts two Boolean values. Use suitable bitwise operators to perform AND, OR and XOR operations on the two Boolean values and to display the output of the respective operations.

```
B=bool(2>5)
A=bool(3>1)
c= 5 & 3
d = 4 | 6
e= 5 ^ 4
print(A,B)
print(c,d,e)
```

(Program – 4)

Write a program that gets the following inputs from the user: Name (String), Roll Number (5 digit integer), and marks (floating point) out of hundred for 5 subjects. Calculate the average marks (floating point). Finally display the percentage of marks in the following format:

```
*****
Roll_No: <Roll_No> Name: <Name>
Percentage:<Marks>%
*****
```

```
nm=input("Enter Name : ")
roll=int(input("ENter Roll Number : "))
if(len(str(roll))==5):
    s1=float(input("Enter marks of subject 1 : "))
    s2=float(input("Enter marks of subject 2 : "))
    s3=float(input("Enter marks of subject 3 : "))
    s4=float(input("Enter marks of subject 4 : "))
    s5=float(input("Enter marks of subject 5 : "))
    avg=(s1+s2+s3+s4+s5)/5
    print("\nRoll_No : ",roll,"\tName : ",nm,"\t Percentage
: %.2f"%avg)
```

(Program – 5)

Write a program to find whether a given year is leap year or not using conditional branching statement.

```
year = int(input(" Enter a Year : "))
if year%4==0:
    if(year%100 == 0 and year%400 != 0):
        print("\n",year," is not a leap year\n")
    else:
        print("\n",year," is a leap year\n")
else:
    print("\n",year," is not a leap year\n")
```

(Program – 6)

Write a program to accept any five digit number and check if it has five digits. If the number has five digits, then calculate the sum of its digits. Otherwise display "Enter a valid 5 digit number".

```
nm=int(input("Enter a 5 digit Number : "))
if(len(str(nm))==5):
    sum=0
    for i in range(5):
        last=nm%10
        sum+=last
        nm//=10
    else:
        print("\nSum of digit : ",sum)
else:
    print("\nEnter a valid 5 digit number")
```

(Program – 7)

Write a program to print the multiplication table of n, where n is entered by the user. Print the nth multiplication table if and only if $0 < n \leq 10$. Otherwise prompt the user to enter "Correct n value" and exit the program.

```
n=int(input("Enter value of n : "))
if(n>0 and n<=10):
    for i in range(1,11):
        print("\n",n," x ",i," = ",n*i)
else:
    print("\nCorrect n value")
```