

# ASSIGNMENT-2

## PYTHON PROGRAMS

**NAME:** KAVISH MEHTA

**COLLEGE ID:** 18BIS0130

Q1) Write a Python Program to input two numbers and perform all Arithmetic operations and print the output

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**Q1) Write a Python Program to input two numbers and perform all Arithmetic operations and print the output**

```
In [2]: print("Assignment operations\n")
number1 = int(input("Enter the first number: "))
number2 = int(input("Enter the second number: "))
print("\n")
print("Addition of %d and %d is: %d"%(number1,number2,number1 + number2))
print("Subtraction of %d and %d is: %d"%(number1,number2,number1 - number2))
print("Division of %d and %d is: %d"%(number1,number2,number1/number2))
print("Multiplication of %d and %d is: %d"%(number1,number2,number1*number2))
print("Modulus of %d and %d is: %d"%(number1,number2,number1%number2))
print("Floor division of %d and %d is: %d"%(number1,number2,number1//number2))
print("Exponent of %d and %d is: %d"%(number1,number2,number1**number2))
```

Assignment operations

Enter the first number: 4

Enter the second number: 2

Addition of 4 and 2 is: 6  
Subtraction of 4 and 2 is: 2  
Division of 4 and 2 is: 2  
Multiplication of 4 and 2 is: 8  
Modulus of 4 and 2 is: 0  
Floor division of 4 and 2 is: 2  
Exponent of 4 and 2 is: 16

Q2)Write a program to make a create a list and access elements using for loop.

- 1) Find no of elements in that list
- 2) Find max and min element in that list
- 3) Sort the list in ascending order and print it

```
In [11]: l = [13,4,55,23,98,3,24]
print("Created a list\nList = ",l)
print("\nAccessing elements of a list using for loop\n")
for i in l:
    print("%d\n"%i)

print("Number of elements in the list : %d\n"%len(l))
print("Maximum element in the list : %d\n"%max(l))
print("Minimum element in the list : %d\n"%min(l))
l.sort()
print("List sorted in ascending order : ",l)
```

Created a list

List = [13, 4, 55, 23, 98, 3, 24]

Accessing elements of a list using for loop

13

4

55

23

98

3

24

Number of elements in the list : 7

Maximum element in the list : 98

Minimum element in the list : 3

List sorted in ascending order : [3, 4, 13, 23, 24, 55, 98]

Q3) Write a program to store student details which consists of student id and name in dictionary.

- 1) Accessing dictionary using for loop
- 2) Access on keys from the created dictionary
- 3) Access values of keys in the dictionary

```
In [17]: dic = {
    10 : 'srinu',
    11 : 'vasu',
    12 : 'tejaswi',
    13 : 'subbu'
}
print("Dictionary created : ",dic,'\n')
print("Dictionary keys are : ",dic.keys(),'\n')
print("Accessing dictionary keys using for loop : \n")
for i in dic.keys():
    print(i,'\n')

print("Dictionary values are : ",dic.values(),'\n')
print("Accessing dictionary values using for loop : \n")
for i in dic.values():
    print(i,'\n')
```

Dictionary created : {10: 'srinu', 11: 'vasu', 12: 'tejaswi', 13: 'subbu'}

Dictionary keys are : dict\_keys([10, 11, 12, 13])

Accessing dictionary keys using for loop :

10

11

12

13

Dictionary values are : dict\_values(['srinu', 'vasu', 'tejaswi', 'subbu'])

Accessing dictionary values using for loop :

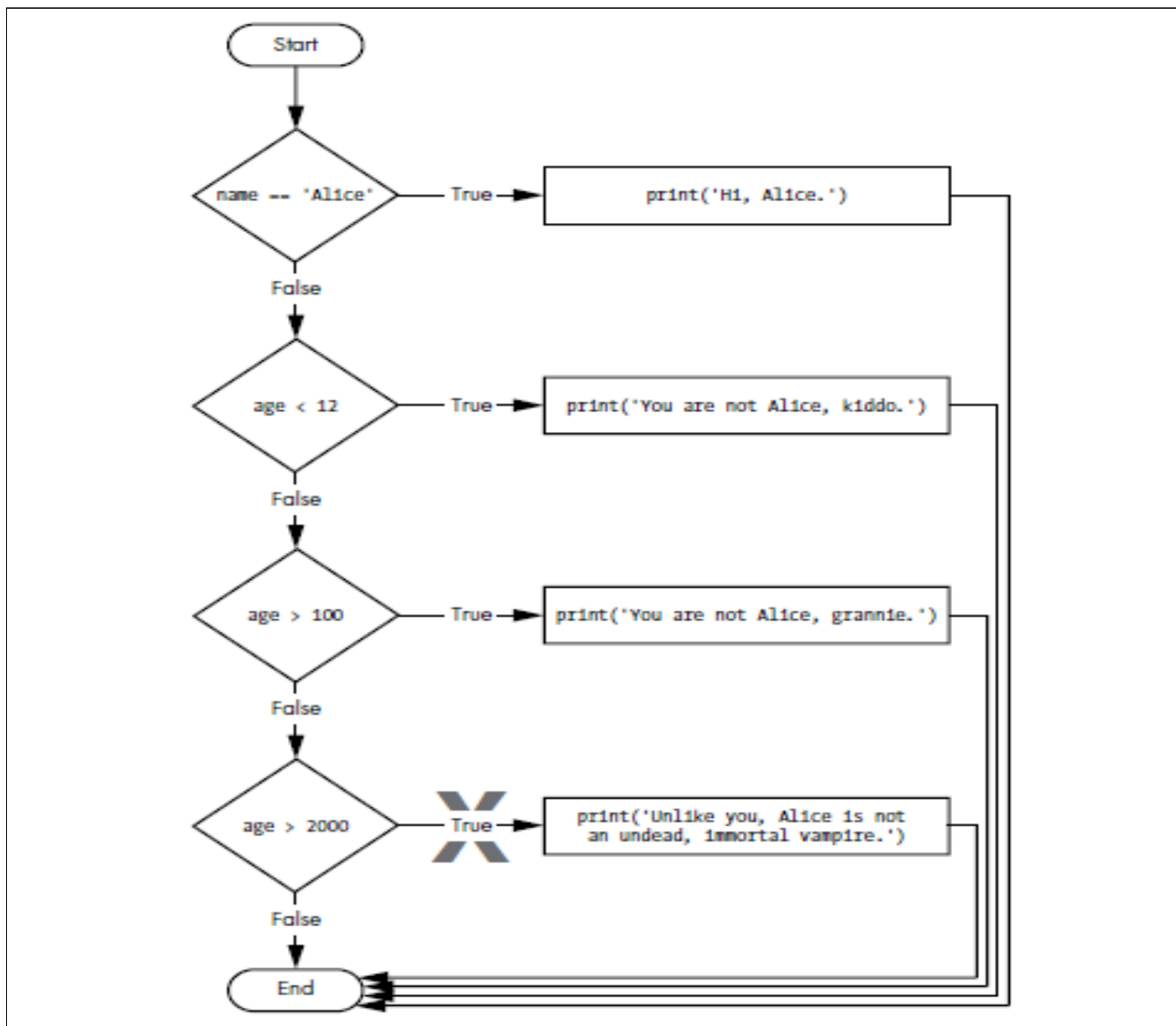
srinu

vasu

tejaswi

subbu

Q4) Write a python Program to the below flow chart



```
In [ ]: name = input("Enter the name : ")

if name == "Alice" :
    print('Hi, Alice')

else :
    age = int(input("Enter Age : "))

    if age < 12 :
        print("You are not Alice, kiddo")

    elif age > 100 :
        print("You are not Alice, grannie")

    elif age > 2000 :
        print("Unlike you, Alice is not an undead, immortal vampire")
```

```
Enter the name : Alice
Hi, Alice
```

```
Enter the name : kavish
Enter Age : 120
You are not Alice, grannie
```