PAGE NO.: 1
DATE.: / / 20

# Execution Programs

1. Write a program to create a list of 6 fruit names and perform add, remove, sort, and reverse operations on the list.

Algorithm

Step 1 Start

Step 2 i) Initialize a list fruit containing fruit names.
ii) Print the initial list of fruits

Step 3 i) Append a new fruit 'Strawberry' to the end of the list using append () method
ii) Print the updated list after adding the new fruit

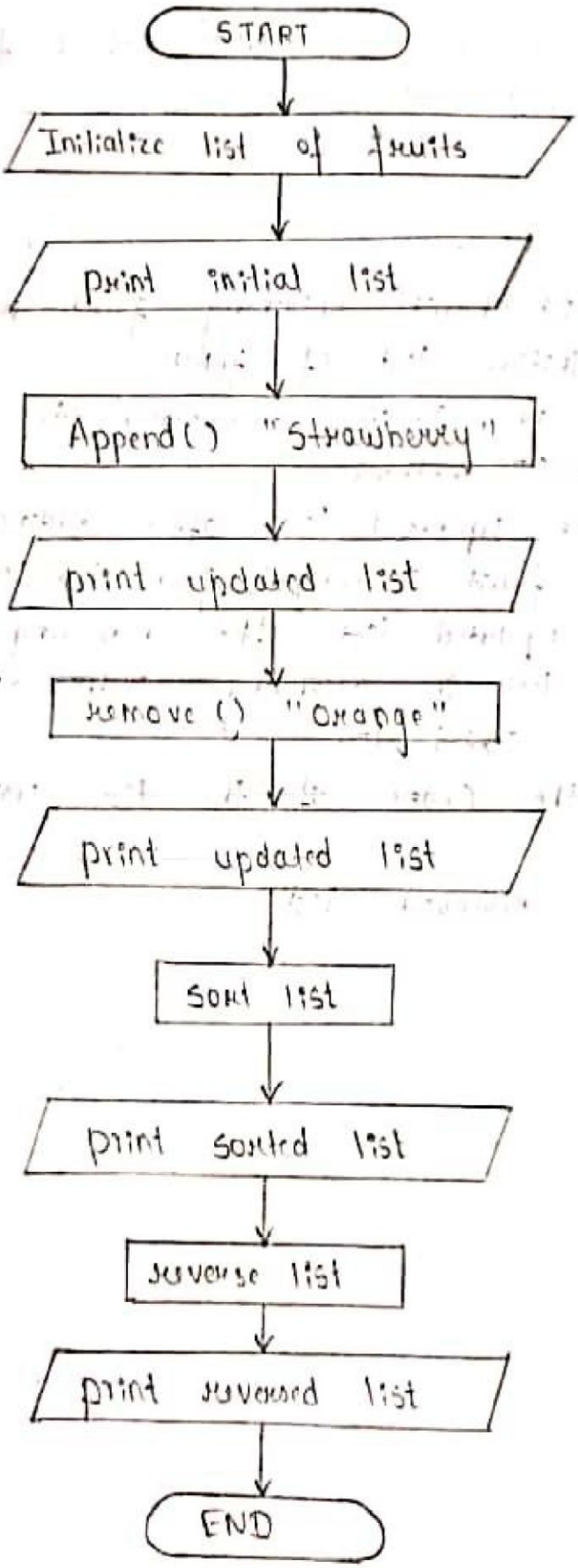
Step 4 i) Remove the fruit 'Orange' from the list using the remove ().
ii) Print the updated list after removing the fruit

Step 5 i) Sort the list in ascending order using the sort ()
ii) Print the sorted list

Step 6 i) Reverse the Order of the list using reverse () method
ii) Print the reversed list

Step 7 End

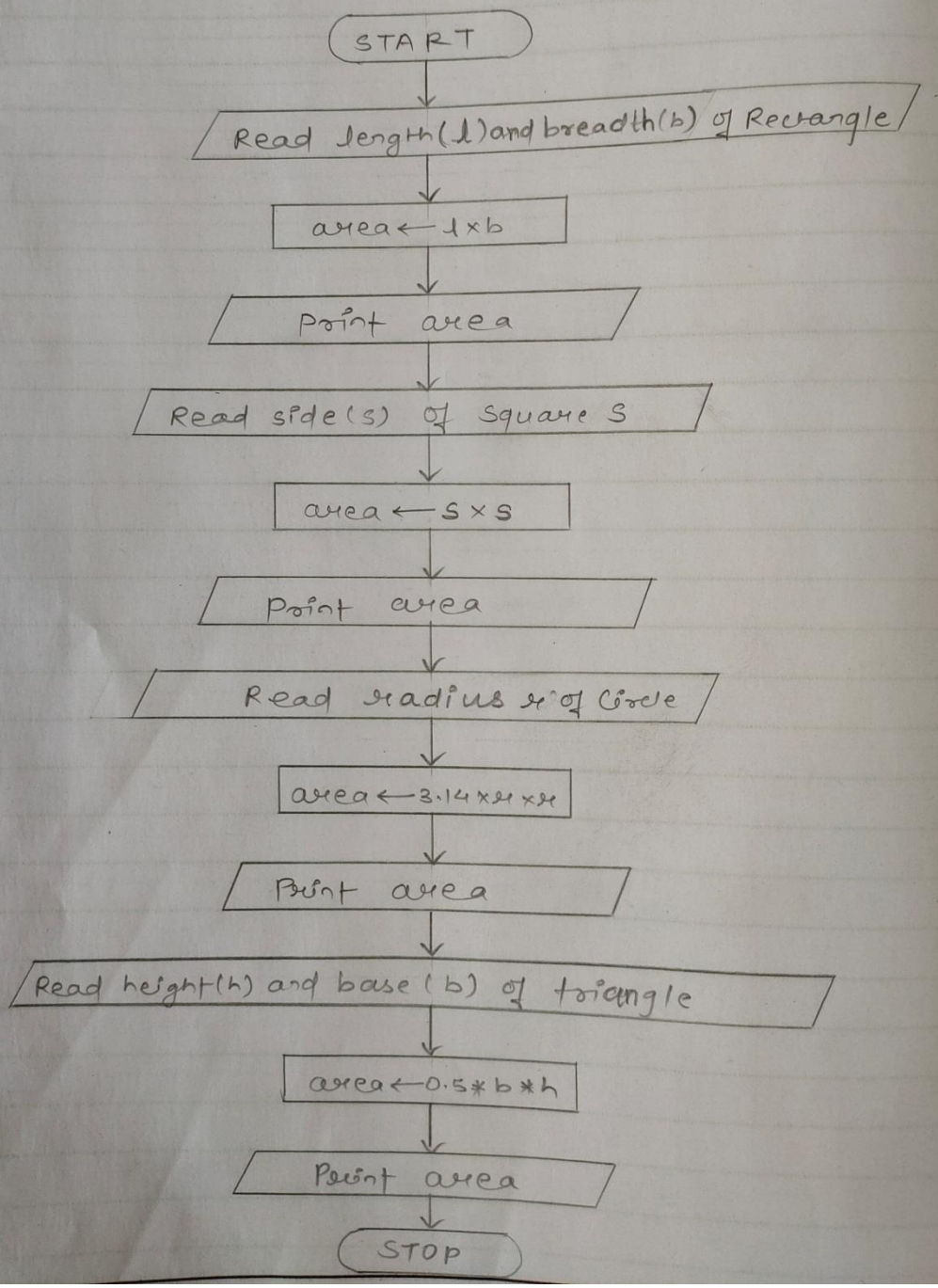
Flowchart


START
Initialize list of fruits
print initial list
Append() "Strawberry"
print updated list
remove() "Orange"
print updated list
sort list
print sorted list
reverse list
print reversed list
END

Program

```
Fruits = ["Apple", "Banana", "Orange", "Mango", "Grapes", "Blueberry"]

print ("List of Fruits: ", Fruits)

Fruits.append ("strawberry")

print ("After adding Strawberry: ", Fruits)

Fruits.remove ("Orange")

print ("After removing Orange: ", Fruits)

Fruits.sort ()

print ("Sorted list: ", Fruits)

Fruits.reverse ()

print ("Reversed list: ", Fruits)
```

E6:- Flowchart to find the area of rectangle, square, circle and triangle.



Eg:- Write a Python program to find the area of rectangle, square, circle and triangle by accepting suitable input parameters from user using user-defined function.

* Algorithm to find the area of rectangle, square, circle and triangle.

1) START
2) Read length(l) and breadth(b)
3) area ← l × b
4) print area
5) Read the side at square S
6) Calculate the area of square
   area ← S × S
7) print area
8) Read radius of circle into r
9) Calculate area of circle
   area ← 3.14 × r × r
10) print area
11) Read height(h) and base(b) of triangle
12) Calculate area of triangle
   area ← 0.5 × b × h
13) print area
14) STOP

**Q6. Write a Python program to find the area of Rectangle, Square, Circle and Triangle by accepting suitable input parameters from user using user-define function ?**

```
def rectangle() :
    print ("\nRectangle")
    l=float(input('Enter the length = '))
    b=float(input('Enter the breadth = '))
    area=l*b
    print ('Area of Rectangle = ',area)

def square() :
    print ("\nSquare")
    s=float(input('Enter the value = '))
    area=s*s
    print ('Area of Square = ',area)

def circle() :
    print ("\nCircle")
    r=float(input('Enter the radius = '))
    area=3.14*r*r
    print ('Area of Circle = ',area)

def triangle() :
    print ("\nTriangle")
    h=float(input('Enter the height = '))
    b=float(input('Enter the base = '))
    area=0.5*b*h
    print ('Area of Triangle = ',area)

rectangle()
square()
circle()
triangle()
```

**OUTPUT:**

```
Rectangle
Enter the length = 4
Enter the breadth = 5
Area of Rectangle =  20.0

Square
Enter the value = 6
Area of Square =  36.0

Circle
Enter the radius = 5
Area of Circle =  78.5

Triangle
Enter the height = 8
Enter the base = 4
Area of Triangle =  16.0
```

2. **Write a Python program to input any 10 numbers and find out the second largest number without using sort function.**

```
def second_largest(num):
first=max(num[0],num[1])
second=min(num[0],num[1])
for n in num[2:] :          if n >
first:
first, second = n, first
elif  first > n >
second:
second = n
   return second

num=[]
#taking runtime input
print('Enter any 10 numbers')
for n in range(5):
item=input('num'+str(n+1)+'=')
num.append(item)  #calling
function
sl=second_largest(num)
print('Second Largest Number=',sl)
```

5. **Write a program to demonstrate the concept of method overriding in python.**

```
class Parent(object):
 def __init__(self): #double underscore
self.value = 4
  def get_value(self):
  print("Parent Class")
  return self.value


class Child(Parent):
def get_value(self):
print("Child Class")
return self.value + 1
objc=Child()
print("value=",objc.get_val
ue())
```