CYCLE-1

1. WRITE A PYTHON PROGRAM TO FIND THE AREA OF A CIRCLE

AIM : Area of a circle.

ALGORITHM :

STEP 1: START

STEP 2: import pi from math

STEP 3: Read r, radius

STEP 4: Apply pi\*r\*r

STEP 5: STOP.

PROGRAM

from math import pi

r = float(input ("Input the radius of the circle : "))

print ("The area of the circle with radius " + str(r) + " is: " + str(pi \* r\*\*2))

RESULT

1. WRITE A PYTHON PROGRAM TO FIND OUT SIMPLE INTEREST

ALGORITHM

PROGRAM

def simple\_interest(p,t,r):

si = (p \* t \* r)/100

print('The Simple Interest is', si)

return si

pr=float(input("Enter the principle: "))

ti=float(input("Enter the time: "))

ra=float(input("Enter the rate of interest: "))

simple\_interest(pr,ti,ra)

RESULT

1. WRITE A PROGRAM TO SWAP TWO NUMBERS WITHOUT USING TEMPORARY VARIABLES.

ALGORITHM

PROGRAM

x = int(input("Enter the first value: "))

y = int(input("Enter the second value: "))

print ("Before swapping: ")

print("Value of x : ", x, " and y : ", y)

x, y = y, x

print ("After swapping: ")

print("Value of x : ", x, " and y : ", y)

RESULT

1. WRITE A PYTHON PROGRAM TO CONVERT TEMPERATURE FROM CELSIUS TO FARENHEIT.

ALGORITHM

PROGRAM

d=float(input("Temperature in Degree Celsius: "))

f=(d\*1.8)+32

print("Converted temperature is: ",f,"F")

RESULT

1. WRITE A PYTHON PROGRAM TO CHECK WHETHER A GIVEN NUMBER IS ODD OR EVEN.

ALGORITHM

PROGRAM

num = int(input("Enter a number: "))

if (num % 2) == 0:

print(str(num) + " is an even number")

else:

print(str(num) + " is an odd number")

RESULT

1. WRITE A PYTHON PROGRAM TO FIND THE LARGEST OF THREE NUMBERS.

ALGORITHM

PROGRAM

a=int(input("Enter the first number: "))

b=int(input("Enter the second number: "))

c=int(input("Enter the third number: "))

if a>b and a>c:

print(a,"is the largest number")

elif b>c:

print(b,"is the largest number")

else:

print(c,"is the largest number")

RESULT

1. WRITE A PYTHON PROGRAM TO CHECK WHETHER A GIVEN NUMBER IS LEAP YEAR OR NOT.

ALGORITHM

PROGRAM

year = int(input("Enter the year: "))

if (year % 4) == 0:

if (year % 100) == 0:

if (year % 400) == 0:

print(str(year) + " is a leap year")

else:

print(str(year) + " is not a leap year")

else:

print(str(year) + " is a leap year")

else:

print(str(year) + " is not a leap year")

RESULT