5. PROGRAMS ON FUNCTIONS

1.Return the full name of a person(first name , last name)using functions.

AIM:

To write a python code to print the original and reversed string using functions.

CODE:

def reverse(str):

if len(str) == 0: # Checking the lenght of string

return str

else:

return reverse(str[1:]) + str[0]

n=input("Enter a string")

str=str(n)

print ("The original string is : ", str)

print ("The reversed string(using recursion) is : ", reverse(str))

OUTPUT:  
Enter a string hariharapriya

The original string is : hariharapriya

The reversed string(using recursion) is : ayirparahirah

2. Write a python program to convert time(hours to minutes)

AIM:

To write a python code to convert the time from hours to minutes

CODE:

def time(hours):

if hours<0:

return hours

else:

return hours\*60

hours=int(input("Enter a time in hours:"))

print("The minutes is:",time(hours))

OUTPUT:

Enter a time in hours:5

The minutes is 300 seconds

3.Printing the sum and reverse of a list

AIM:

To write a python code to print the sum and reverse of a list.

CODE:

input\_string = input('Enter elements of a list separated by space ')

print("\n")

user\_list = input\_string.split()

print('list: ', user\_list)

for i in range(len(user\_list)):

user\_list[i] = int(user\_list[i])

print("Sum = ", sum(user\_list))

print("Reverse=",list(reversed(user\_list)))

OUTPUT:

Enter elements of a list separated by space 10 20 40 60

list: ['10', '20', '40', '60']

Sum = 130

Reverse= [60, 40, 20, 10]

4.Converting kilometre to metre

AIM:

To write a python code to convert kilometre to metre

CODE;

def conversion(num):

metre=num\*1000

return metre

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

print("metre is",conversion(num))

OUTPUT:

Enter a kilometre;3

Metre is 3000

5. Program to find the area and perimeter of a cylinder

AIM:

To write a python code to find the area and perimeter of a cylinder.

CODE:

# Function to calculate

# the perimeter of a cylinder

def perimeter( diameter, height ) :

return 2 \* ( diameter + height )

diameter=int(input(“Enter a diameter”))

height=int(input(“Enter a height”))

print ("Perimeter = ",perimeter(diameter, height))

r = float(input("Enter a radius:"))

h = float(input("Enter a height:"))

surfacearea = (2\*22\*(r + h))/7

print ("Surface Area Of Cylinder : ")

print (surfacearea)

OUTPUT:

Enter a diameter 5

Enter a height 10

Perimeter=30

Enter a radius:2.0

Enter a height:5.0

Surface Area Of Cylinder : 44.0

RESULT:

The programs using functions are written and executed.

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