

Programs using function definition

a)Maximum of two numbers

Aim: To find the maximum of two numbers using function definition

Program:

```
def max():  
    x=int(input("Enter a number 1:"))  
    y=int(input("Enter a number 2:"))  
    if(x>y):  
        print("The maximum number is",x)  
    else:  
        print("The minimum number is",y)  
max()
```

Output:

Enter a number 1:10

Enter a number 2:8

The maximum number is 10

b)G.C.D of two numbers

Aim: To find the greatest common divisor of two numbers.

Program:

```
def gcd():  
    a=int(input("Enter a number 1:"))  
    b=int(input("Enter a number 2:"))  
    if(a>b):  
        dividend=a  
        divisor=b  
    else:  
        dividend=b  
        divisor=a  
    while(divisor!=0):  
        rem=dividend%divisor  
        divisor=dividend  
        dividend=rem  
    return divisor  
print("Gcd of two numbers is",gcd())
```

Output:

Enter a number 1:10

Enter a number 2:8

Gcd of two numbers is 2

c) Adding first name and last name

Aim: To add the first name and last name.

Program:

```
first_name=input("Enter a first name:")
```

```
last_name=input("Enter a last name:")
```

```
def name():
```

```
    c=first_name+last_name
```

```
    return c
```

```
a=name()
```

```
print("The Name is",a)
```

Output:

Enter a first name:Naveen kumar

Enter a last name:k

The Name is Naveen kumark

d)Conversion of time into minutes

Aim:To convert time into minutes

Program:

```
def add():  
    time_in_hours=int(input("Enter a number of hours:"))  
    time_in_mins=int(input("Enter a number of mins:"))  
    z=time_in_hours*60+time_in_mins  
    return z  
print(add())
```

Output:

Enter a number of hours:5

Enter a number of mins:30

330

e)Area and perimeter of a triangle

Aim: to find area and perimeter of a triangle using function definition.

Program:

```
def area_of_triangle():  
    Area = (a + b + c) / 2  
    return Area  
  
def perimeter_triangle():  
    perimeter = a + b + c  
    return perimeter  
  
a=float(input("Enter the Number:"))  
b=float(input("Enter the Number:"))  
c=float(input("Enter the Number:"))  
  
print("Area of Triangle is:",area_of_triangle())  
print("Perimeter of Triangle is:",perimeter_triangle())
```

Output:

Enter the Number:6

Enter the Number:7

Enter the Number:8

Area of Triangle is: 10.5

Perimeter of Triangle is: 21.0

