**GROUP 3&9**

**PROGRAMS ON FUNCTIONS**

**1)CALCULATE GCD OF TWO NUMBERS**

**CODE:**

**def gcd(a, b):**

**if(b == 0):**

**return a**

**else:**

**return gcd(b, a % b)**

**a=int(input("enter a:"))**

**b=int(input("enter b:"))**

**print(gcd(a,b))**

**OUTPUT:**

**enter a:10**

**enter b:4**

**2**

**2)FUNCTION TO FIND THE MAX OF TWO NUMBERS**

**CODE:**

**def maximum(a, b):**

**if a >= b:**

**return a**

**else:**

**return b**

**a=int(input("enter a:"))**

**b=int(input("enter b:"))**

**print(maximum(a, b))**

**OUTPUT:**

**enter a:5**

**enter b:6**

**6**

**3)PRINT THE ARA AND PERIMETER OF THE TRIANGLE USING FUNCTION**

**CODE:**

**def area(l,b):**

**a=(1/2)\*l\*b**

**return a**

**def perimeter(a,b,c):**

**p=a+b+c**

**return p**

**len = int(input("Enter length:"))**

**br = int(input("Enter breadth:"))**

**s1 = int(input("Enter side1:"))**

**s2 = int(input("enter side 2:"))**

**s3 =int(input("enter side 3:"))**

**print("area:",area(len,br))**

**print("perimeter:",perimeter(s1,s2,s3))**

**OUTPUT:**

**Enter length:4**

**Enter breadth:6**

**Enter side1:3**

**enter side 2:5**

**enter side 3:4**

**area: 12.0**

**perimeter: 12**

**4)RETURN THE FULL NAME OF THE PERSON**

**CODE:**

**def name(a,b):**

**c=a+b**

**return c**

**f=str(input("enter first name:"))**

**l=str(input("enter last name:"))**

**print("full name:",name(f,l))**

**OUTPUT:**

**enter first name:dharani**

**enter last name:sri**

**full name: dharanisri**

**5) TO CONVERT TIME TO MINUTES**

**CODE:**

**def minutes(hrs,min):**

**min=hrs\*60+min**

**return min**

**h= int(input("Enter hrs:"))**

**m = int(input("Enter min:"))**

**m = minutes(h,m)**

**print("total minutes=",m)**

**OUTPUT:**

**Enter hrs:4**

**Enter min:41**

**total minutes= 281**