In [ ]:
```
                                    ASSIGNMENT-5- Functions With using Arguments
```

In [ ]:
```
# 1.wap to ask the user enter three numbers and calculate average?
```

In [2]:
```
def shruthi(num1,num2,num3):
    sum=num1+num2+num2
    avg=sum/3
    avg1=round(avg,2)
    print(f"average of three numbers is={avg1}")
shruthi(45,23,89)
```

```
average of three numbers is=30.33
```

In [ ]:
```
# 2.find the area of circle
```

In [4]:
```
import math
def shruthi(r):
    area=math.pi*r*r
    area1=round(area,2)
    print(area1)
shruthi(5)
```

```
78.54
```

In [ ]:
```
# 3.wap to ask user bill amount
# ask the user howmuch tipyou want pay in percentage
#calculate totalbill
```

In [6]:
```
def shruthi(bill,tip):
    total=(bill+(bill*tip/100))
    print(total)
shruthi(500,10)
```

```
550.0
```

In [ ]:
```
# 4.wap to ask the user to enter base and height and calculate the area of triangle
```

In [7]:
```
def shruthi(b,h):
    area=(1/2)*b*h
    area1=round(area,3)
    print(area1)
shruthi(4.3,5.2)
```

```
11.18
```

In [ ]:
```
# 5.wap to ask the user to enter length and breadth and calculate the area of rectang
```

In [8]:
```
def shruthi(l,b):
    area=l*b
    area1=round(area,2)
    print(area1)
shruthi(6.453,8.97)
```

```
57.88
```

In [ ]:
```
# 6.find even number or odd number
```

In [9]:
```
def shruthi(num1):
    if num1%2==0:
        print(f"{num1} is even")
    else:
        print(f"{num1} is odd")
shruthi(67)
```

```
67 is odd
```

In [ ]:
```
# 7.Write a programme ask the user enter the distance
# if distance greater than 25km
# then enter the charge
# print the total cost
# otherwise
# print free ride
```

In [11]:
```
def distance1(distance,charge):
    if distance>25:
        total_cost=charge*distance
        print(f"the total cost is {total_cost}")
    else:
        print("freeride")
distance1(67,5)
```

```
the total cost is 335
```

In [ ]:
```
# 8.Write a programme ask the user enter the distance
# if distance greater than 25km
# then enter the charge
# print the total cost
# otherwise
# print free ride
# implement by using random between(1,100)
```

In [12]:
```
import random
def distance(charge):
    distance=random.randint(1,100)
    if distance>25:
        total_cost=charge*distance
        print(f"the total cost is {total_cost}")
    else:
        print("freeride")
distance(6)
```

```
the total cost is 570
```

In [ ]:
```
# 9.Write a programme ask the user enter the distance
# cutoff distance enter 25
# if distance greater than 25km
#  print("good news your charge is applicable for only remaining of 25")
# chargeable distance=distance-cutoff
#enter the charge
# print the total cost
```

```
# otherwise
# print freeride
```

In [13]:
```
def distance1(distance,charge):
    cutoff_distance=25
    if distance>cutoff_distance:
        print("good news your charge is applicable for only remaining of 25")
        chargeable_distance=distance-cutoff_distance
        total_cost=charge*chargeable_distance
        print(f"the total cost is {total_cost}")
    else:
        print("freeride")
distance1(90,5)
```

```
good news your charge is applicable for only remaining of 25
the total cost is 325
```

In [ ]:
```
#10. Write a programme ask the user to enter course name
# ask user to enter the institute
# if the course equal to data science and institute equal to naresh it
# then you are good
# otherwise
# you are bad
```

In [17]:
```
def course(course_name,institute_name):
    if course_name=='data science' and  institute_name=='naresh it':
        print("You are good")
    else:
        print("You are bad")
course('data science','naresh it')
```

```
You are good
```

In [ ]:
```
#11. Write a programme ask the user to enter randomnumber between 1 to 10,treat this
#ask the user to enter another number from keyboard as number2
# if number1 equals to number2
# print you won
# otherwise
# print you lost
```

In [18]:
```
def randomm(number2):
    number1=random.randint(1,10)
    if number1==number2:
        print("You won")
    else:
        print("You lost")
randomm(5)
```

```
You lost
```

In [ ]:
```
#12. Write a programme ask the user enter number
# if number equal to 1 then print one
# if number equal to 2 then print two
# if number equal to 3 then print three
# otherwise print enter a valid number
```

In [19]:
```
def match(number):
    if number==1:
        print("one")
    elif number==2:
        print("two")
    elif number==3:
        print("three")
    else:
        print("enter a valid number")
match(3)
```

```
three
```

In [ ]:
```
#13. Write a programme ask the user to enter
# if the number is greater than zero,print positive
# if the number is less than zero,print negative
# otherwise print zero
```

In [20]:
```
def posneg(number):
    if number>0:
        print("positive")
    elif number<0:
        print("negative")
    else:
        print("zero")
posneg(-9867)
```

```
negative
```

In [ ]:
```
#14. Write a programme that ask the user to enter percentage marks 0 to 100
# if percentage greater than 90,print A grade
# if percentage between 75 to 90,print B grade
# if percentage between 50 to 75,print C grade
# if percentage between 35 to 50,print D grade
# if percentage lessthan 35,print fail
```

In [21]:
```
def marks(percentage):
    if percentage>=90:
        print("A grade")
    elif percentage>=75:
        print("B grade")
    elif percentage>=50:
        print("C grade")
    elif percentage>=35:
        print("D grade")
    else:
        print("Fail")
marks(75.99)
```

```
B grade
```

In [ ]:
```
#15. Write a programme that asks user to enter age
# if the age greater than 100 print you are lucky
# if age greater than 75 print old age
# if age between 50 to 75,print senior citizen
# if age between 30 to50,print middle age
```

```
# if age between 15to 30,print young age
#if age lessthan 15,print kid
```

In [22]:
```
def age(age):
    if age>=100:
        print("You are lucky")
    elif age>=75:
        print("old age")
    elif age>=50:
        print("senior citizen")
    elif age>=30:
        print("middle age")
    elif age>=15:
        print("young age")
    else:
        print("kid")
age(67.8890)
```

```
senior citizen
```