In [ ]:
```
ASSIGNMENT-4
```

In [ ]:
```
# Question-1 : Write a programme to ask user enter a number ?
# Find it is even number or odd number
# Idea:any number divide by 2,the remainder=0
# it is called even number.
```

In [3]:
```
# Answer :
number=eval(input("enter a number:"))
if number%2==0:
    print(f"{number} is even number")
else:
    print(f"{number} is odd number")
```

```
12 is even number
```

In [ ]:
```
# Question-2 : Write a programme to ask user enter a number ?
# Find it is even number or odd number
# Idea:any number divide by 2,the remainder=0
# it is called even number.
# Implementit using random input between 1,100
```

In [7]:
```
# Answer:
import random
number=random.randint(1,100)
if number%2==0:
    print(f"{number} is even number")
else:
    print(f"{number} is odd number")
```

```
59 is odd number
```

In [ ]:
```
# Question-3:
# 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 [14]:
```
# Answer:
distance=eval(input("enter the distance in kms:"))
if distance>25:
    charge=eval(input("enter charge:"))
    total_cost=charge*distance
    print(f"the total cost is {total_cost}")
else:
    print("freeride")
```

```
the total cost is 150
```

In [ ]:
```
# Question-4:
# 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 [15]:
```
# Answer:
distance=eval(input("enter the distance in kms:"))
cutoff_distance=25
if distance>cutoff_distance:
    print("good news your charge is applicable for only remaining of 25")
    chargeable_distance=distance-cutoff_distance
    charge=eval(input("enter charge:"))
    total_cost=charge*chargeable_distance
    print(f"the total cost is {total_cost}")
else:
    print("freeride")
```

```
good news your charge is applicable for only remaining of 25
the total cost is 750
```

In [ ]:
```
# Question-5:
# 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 [ ]:
```
# Answer:
course_name=input("enter course name:")
institute_name=input("enter institute name:")
if course_name=='data science' and  institute_name=='naresh it':
    print("You are good")
else:
    print("You are bad")
```

In [ ]:
```
# Question-6:
# Write a programme ask the user to enter randomnumber between 1 to 10,treat this as
#ask the user to enter another number from keyboard as number2
# if number1 equals to number2
# print you won
# otherwise
# print you lost
```

In [48]:
```
#Answer:
import random
number1=random.randint(1,10)
number2=eval(input("enter number2:"))
if number1==number2:
    print("You won")
else:
    print("You lost")
```

```
You lost
```

In [ ]:
```
# Question-7:
# 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 [49]:
```
# Answer:
number=eval(input("enter a number:"))
if number==1:
    print("one")
elif number==2:
    print("two")
elif number==3:
    print("three")
else:
    print("enter a valid number")
```

```
enter a valid number
```

In [ ]:
```
# Question-8:
# 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 [40]:
```
#Answer:
number=eval(input("enter a number:"))
if number>0:
    print("positive")
elif number<0:
    print("negative")
else:
    print("zero")
```

```
negative
```

In [ ]:
```
# Question-9:
# 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 [51]:
```
# Answer:
percentage=eval(input("enter percentage of marks:"))
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")
```

```
B grade
```

In [ ]:
```
#Question-10:
# 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 [55]:
```
# Answer:
age=eval(input("enter age of person:"))
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")
```

```
young age
```

In [ ]:
```

```