## Practical Set – 6

# **Program 6.1:** Create class vgec with following attributes

- a. Class variable cnt
- b. Instance variables x, y
- c. Instance methods get\_value, print\_value
- d. Parameterized constructor, destructor

#### Code:

class vgec:

```
cnt=0 #class variable

def __init__(self):
    print("....this is parametrized constructor...")

def get_value(self):
    self.x=input("\nEnter the value of x :") # instance variable self.y=input("Enter the value of y :")

def print_value(self):
    print("value of X:",self.x)
    print("value of Y:",self.y)

o1=vgec()
o1.get_value()
```

## **Output:**

Enter the value of x:20 Enter the value of y:30

value of X: 20 value of Y: 30

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**Program 6.2:** Implement the concept of class method, static method and instance method.

## Code:

```
class Myclass:
  name="Aadi"
  def __init__(self,a,b):
     self.a=a
     self.b=b
  def disp(self):
     print("Output return by instance method")
    print("a:",self.a)
     print("b :",self.b)
  @classmethod
  def cmethod(cls):
     print("Output return by class method :",cls.name)
  @staticmethod
  def smethod():
     print("This is static method ")
s1=Myclass(10,20)
s1.disp()
Myclass.cmethod()
Myclass.smethod()
```

## Output:

Output return by instance method

a : 10 b : 20

Output return by class method : Aadi

This is static method

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```
Program 6.3: Create a class Book wtih attributes (Title, Author,
No_of_Pages). Override inbuilt methods
__str__(), __len__(), __del() so that it displays customized messages.
For Ex. len(Book) will return No_of_Pages
Code:
class Book:
 def __init__(self,title,author,page):
    self.title=title
    self.author=author
    self.page=page
 def __str__(self):
    return "\nTitle:"+self.title+"\nAuthor:"+self.author+"\nPages:"+str(self.page)
 def __len__(self):
    return self.page
 def __del__(self):
    del self.title
    del self.author
    del self.page
    print("Book entry deleted")
#main
o1=Book("You Can Win", "Shiv khera", 250)
print('Book:',o1)
print('length of the book:', len(o1))
del o1
Output:
Book:
Title: You Can Win
Author: Shiv khera
Pages:250
length of the book: 250
```

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Book entry deleted

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