PRACTICAL – 1

PROGRAM -1

AIM- Create a Student object and call the Stud method to print the details {With Input from User}

CODE-

```python
print("HARSH DEVRE")

class Student:
    """

    This class represents a student with attributes Name, Roll_Number, and Marks.

    """

    def __init__(self):
        """

        Initializes the student attributes by taking input from the user.

        """

        self.Name = input("Enter your name:")

        self.Roll_Number = int(input("Enter your roll number:"))

        self.Marks = int(input("Enter your marks:"))


    def Stud(self):
        """

        Prints the student details.

        """

        print(self.Name)

        print(self.Roll_Number)

        print(self.Marks)
```
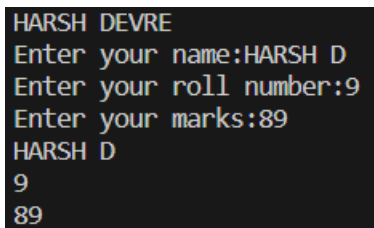
Create a Student object and call the Stud method to print the details

obj = Student()

obj.Stud()

OUTPUT-

```
HARSH DEVRE
Enter your name:HARSH D
Enter your roll number:9
Enter your marks:89
HARSH D
9
89
```

PROGRAM -2

AIM -Using All 3 Methos In One Code [Static,Class,Instance Methods]

CODE-

```python
class Maths:
    """

    A class that contains methods for performing arithmetic operations.
    """

    @staticmethod
    def sum_numbers(a, b):
        """

        A static method to calculate the sum of two numbers and print the result.
        """

        z= a + b

        print(z)
```

```python
    @classmethod
    def product_numbers(cls, a, b):
        """

        A class method to calculate the product of two numbers and print the
result.
        """

        z = a * b
        print(z)


    def subtract_numbers(self, a, b):
        """

        An instance method to calculate the difference between two numbers and
print the result.
        """

        z = a - b
        print(z)


# Calling the defined methods
Maths.sum_numbers(2, 3)  # This will print the sum of 2 and 3
Maths.product_numbers(2, 3)  # This will print the product of 2 and 3
Maths().subtract_numbers(2, 3)  # This will print the difference of 2 and 3
```

Output:-

```
PS C
5
6
-1
```