Experiment 10: Write a program to implement an employee management system using classes, instances and inheritance.

CODE:

```
# Parent class: Employee
class Employee:
  def init (self,name,employee id):
    self.name = name
    self.employee_id=employee_id
  def display_info(self):
    print("Employee ID: ",self.employee_id)
    print("Name: ",self.name)
# Derived class: Manager (inherits from Employee)
class Manager(Employee):
  def __init__(self,name,employee_id,department):
    super().__init__(name,employee_id)
    self.department= department
  def display info(self):
    super().display_info()
    print("Department: ",self.department)
# Derived class: Developer (inherits from EMployee)
class Developer(Employee):
  def __init__(self,name,employee_id,programming_language):
    super(). init (name,employee id)
    self.programming_language = programming_language
  def display info(self):
    super().display_info()
    print("Programming Language: ",self.programming_language)
# Get runtime input for Manager
manger_name = input("Enter Manager's name: ")
manger_id = int(input("Enter Manager's ID: "))
```

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manger_department = input("Enter Manager's Department: ")
# Get runtime input for Programer
developer_name = input("Enter Developer's name: ")
developer_id = int(input("Enter Developer's ID: "))
programing_language = input("Enter Developer's Programing
Language: ")
# Creating instances of Manager and Developers classes
manager = Manager(manger_name,manger_id,manger_department)
developer =
Developer(developer_name,developer_id,programing_language)
# Display information of Manger Developer
print("\nManager Information:")
manager.display_info()
print("\nDeveloper Information:")
developer.display_info()
```

OUTPUT:

```
Options:
1: Add
2: Subtract
3: Multiply
4: Divide
5: Exit
Enter Choice(1-5): 1
Enter first number: 5
Enter second number: 6
Result: 11.0
Options:
1: Add
2: Subtract
3: Multiply
4: Divide
5: Exit
Enter Choice(1-5): 2
Enter first number: 5
Enter second number: 6
Result: -1.0
Options:
1: Add
2: Subtract
3: Multiply
4: Divide
5: Exit
Enter Choice(1-5): 3
Enter first number: 5
Enter second number: 6
Result: 30.0
Options:
1: Add
2: Subtract
3: Multiply
4: Divide
5: Exit
Enter Choice(1-5): 4
Enter first number: 5
Enter second number: 6
Result: 0.83333333333333333
Options:
1: Add
2: Subtract
3: Multiply
4: Divide
5: Exit
Enter Choice(1-5): 5
Exiting the calculator. Goodbye!
```