

3. Employee Payroll System

Program :

```
from abc import ABC, abstractmethod
```

```
# Abstraction
```

```
class Employee(ABC):
```

```
    def __init__(self):
```

```
        pass
```

```
    @abstractmethod
```

```
    def calculate_salary(self):
```

```
        pass
```

```
# Inheritance
```

```
class PermanentEmployee(Employee):
```

```
    def __init__(self):
```

```
        super().__init__()
```

```
        self.salary = 50000
```

```
# Polymorphism (Overriding)
```

```
    def calculate_salary(self):
```

```
        return self.salary
```

```
class ContractEmployee(Employee):
```

```
def __init__(self):
    super().__init__()
    self.salary = 30000

# Polymorphism (Overriding)
def calculate_salary(self):
    return self.salary

# ---- Main Program ----

emp_type = input("Enter Employee Type (Permanent/Contract): ")

if emp_type.lower() == "permanent":
    emp = PermanentEmployee()
elif emp_type.lower() == "contract":
    emp = ContractEmployee()
else:
    print("Invalid Employee Type")
    exit()

print("Salary:", emp.calculate_salary())
```

Output :

Enter Employee Type (Permanent/Contract): Contract

Salary: 30000