

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
```