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graph LR
    Start --> Inscart[Inserimento carta]
    Inscart --> Controll[Controllo carta]
    Controll --> InscartPin[Inserimento pin]
    InscartPin --> ErrorePin[Errore pin]
    InscartPin --> InscartServ[Inserimento carta da utilizzare a fini]
    InscartServ --> ControllServ[Controllo saldo e richiesta rimborsi]
    InscartServ --> ChiusuraServ[Chiusura programma]
    InscartServ --> ErroreChiusura[Errore/Chiusura programma]
    ControllServ --> ChiusuraServ
    ErrorePin --> IngressoDenaro[Ingresso denaro]
    ErroreChiusura --> IngressoDenaro
    IngressoDenaro --> SaldoCredito[Saldo a credito]
    SaldoCredito --> StampaRicevuta[Stampa ricevuta]
    StampaRicevuta --> ChiusuraProgramma[Chiusura programma]
  
```

```

graph LR
    Start((Start)) --> SceltaProdotto[scelta prodotto]
    SceltaProdotto --> CheckQuantity{check quantity}
    CheckQuantity -- no --> CloseProgram[close program]
    CheckQuantity -- yes --> InsertCardId{insert card id}
    InsertCardId -- no --> CloseProgram
    InsertCardId -- yes --> IdentityCheck[IdentityCheck]
    IdentityCheck --> HaveID{have ID?}
    HaveID -- no --> CloseProgram
    HaveID -- yes --> InsertMoney{insert money}
    InsertMoney --> MoneyCheck[MoneyCheck]
    MoneyCheck --> AllGood{all good?}
    AllGood -- no --> CloseProgram
    AllGood -- yes --> ProductErogation[Product erogation]
    ProductErogation --> Rest{rest?}
    Rest -- no --> RestErogation[rest erogation]
    Rest -- yes --> CloseProgram
  
```

The diagram illustrates the following process flow:

- Start** leads to the **scelta prodotto** object.
- The **scelta prodotto** object has attributes: `+name: str`, `+quantity: int`, `+power: bool`, `+id: int`, and a method `+checkProductQuantity(int): bool`.
- A decision diamond **check quantity** follows. If **no**, the process ends at **close program**. If **yes**, it proceeds to **insert card id**.
- The **insert card id** decision leads to the **IdentityCheck** object if **yes**, or **close program** if **no**.
- The **IdentityCheck** object has attributes: `+idUser: str`, `+isIB: bool`, and a method `#checkAge(bool): bool`.
- A decision diamond **have ID?** follows. If **no**, it leads to **close program**. If **yes**, it leads to **insert money**.
- The **insert money** decision leads to the **MoneyCheck** object if **yes**.
- The **MoneyCheck** object has attributes: `+idUser: str`, `+moneyQuantity: double`, `+productPrice: double`, `+tipOfMoney: str`, and a method `-checkPayment(double, double): bool`.
- A decision diamond **all good?** follows. If **no**, it leads to **close program**. If **yes**, it leads to **Product erogation**.
- The **Product erogation** object leads to a decision diamond **rest?**.
- The **rest?** decision leads to **rest erogation** if **no**, or **close program** if **yes**.

elemento statico

condizione

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```

classDiagram
    class User {
        #idUser: str
        -name: str
        -surname: str
        -telepass: bool
    }
    class Car {
        #targa: str
        -brand: str
        -model: str
        -color: str
        -category: str
        -euroClass: int
        -user: User
    }
    class Trans {
        +car: Car
        +enterToolBooth: ToolBooth
        +exitToolBooth: ToolBooth
        +paymentMethod: str
        +toll
        +checkPaymentMethod() str
    }
    class ToolBooth {
        #idToolBooth: int
        -name: str
        -position: str
        -numLane: int
    }
    class Payment {
        +transit: Transit
        +amount: float
        +state: bool
        +dateTime: DateTime
    }
    class PaymentWork {
        +printRecive: str
        +openGate: bool
    }
    class PaymentDoneWork {
        +printMessage: str
        +openGate: bool
    }
    User --> Car
    Car --> Trans
    Trans --> ToolBooth
    Trans --> Payment
    Payment --> PaymentWork
    Payment --> PaymentDoneWork
    PaymentDoneWork --> Trans
  
```

The diagram illustrates the structure of a parking system. It includes the following classes and their attributes:

- User**: #idUser: str, -name: str, -surname: str, -telepass: bool
- Car**: #targa: str, -brand: str, -model: str, -color: str, -category: str, -euroClass: int, -user: User
- Trans**: +car: Car, +enterToolBooth: ToolBooth, +exitToolBooth: ToolBooth, +paymentMethod: str, +toll, +checkPaymentMethod(): str
- ToolBooth**: #idToolBooth: int, -name: str, -position: str, -numLane: int
- Payment**: +transit: Transit, +amount: float, +state: bool, +dateTime: DateTime
- PaymentWork**: +printRecive: str, +openGate: bool
- PaymentDoneWork**: +printMessage: str, +openGate: bool

Relationships (Associations):

- User to Car
- Car to Trans
- Trans to ToolBooth
- Trans to Payment
- Payment to PaymentWork
- Payment to PaymentDoneWork
- PaymentDoneWork to Trans

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