Q1:Temperature check

```python
current_temperature= float(input("Enter the current temperature:"))
if(current_temperature<10):
  print("it's too cold!")
elif(current_temperature>=10 and current_temperature<=25):
   print("it's cool outside")
else:
  print("it's too hot!")
```

```
Enter the current temperature:4
it's too cold!
```

Q2:ATM withdrawal system

```python
accout_balance= float(input("Enter your account balance:"))
withdrawal_amount= float(input("Enter the amount you want to withdraw"))
if(withdrawal_amount>accout_balance):
  print("insufficient balance")
else:
  balance=accout_balance-withdrawal_amount;
  print("Withdrawal successful")
  print("Remaining balance:",balance)
```

```
Enter your account balance:1000
Enter the amount you want to withdraw300
Withdrawal successful
Remaining balance: 700.0
```

Q3:Student Grade calculator

```python
mark= int(input("Enter your mark: "))
if mark<=100 and mark >=90:
  print("A+")
elif(mark<=89 and mark>=80):
  print("A")
elif mark<=79 and mark >=70:
  print("B")
elif mark<=69 and mark>=60:
  print("c")
else:
  print("Fail")
```

```
Enter your mark: 40
Fail
```

q4:Bus Ticket Discount

```python
age= int(input("Enter your age:"))
ticke_price=100
if(age<5):
  final_price=0
elif age>=5 and age <=18:
  final_price=ticke_price*0.5
elif(age>=60):
  final_price=ticke_price
print("Your final price is:",final_price)
```

```
Enter your age:17
Your final price is: 50.0
```

⌄ Q5:Restaurant Bill with discount

```
total_bill= float(input("Enter the total bill amount:"))
if total_bill>=1000:
   discount=total_bill*0.10
   final_bill=total_bill-discount
else:
   final_bill=total_bill
print("Final bill amount:",final_bill)
```

```
Enter the total bill amount:1200
Final bill amount: 1080.0
```

⌄ 6:Login authentication

```
actual_username="admin"
actual_password="12345"
username=input("Enter your username:")
password=input("Enter your password:")
if(username==actual_username and password==actual_password):
   print("Login successful")
else:
   print("Invalid credentials")
```

```
Enter your username:admin
Enter your password:77
Invalid credentials
```

⌄ q7:Traffic light system

```
color=input("Enter the Traffic light system(red,yellow,green):")
if(color=="red"):
   print("Stop")
elif(color=="yellow"):
   print("Get Ready")
elif(color=="green"):
   print("Go")
else:
   print("invaild color")
```

```
Enter the Traffic light system(red,yellow,green):blue
invaild color
```

⌄ Leap year checker

```
year=int(input("Enter the year:"))
if(year%4==0):
   print("Leap year")
elif(year%4==0 and year%100!=0):
   print("Leap year")
else:
   print("Not a leap year")
```

```
Enter the year:2026
Not a leap year
```

⌄ Q9: job Eligibility checker

```
age=int( input("Enter your age :"))
qualification=input("Enter your qualification :")
if age>=18 and qualification=="graduate":
   print("Eligible for job")
```

```
else:
    print("Not eligible for job")
```

```
Enter your age :9
Enter your qualification :graduate
Not eligible for job
```

Q:10 Electricity Bill calculator

```
units= int(input("Enter the number of units consumed:"))
if units <=100:
    bill=units*5
elif units<=200:
    bill=units*7
else:
    bill=units*10
print("total biil amount", bill ,"BD")
```

```
Enter the number of units consumed:7
total biil amount 35 BD
```