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[ ]  from reportlab.lib.pagesizes import A4
from reportlab.platypus import SimpleDocTemplate, Table, TableStyle, Paragraph, Spacer
from reportlab.lib import colors
from reportlab.lib.styles import getSampleStyleSheet
from datetime import datetime

def generate_invoice(invoice_number, customer_name, items, output_file="invoice.pdf"):
    """
    items = [
        {"item": "Product A", "qty": 2, "price": 50},
        {"item": "Product B", "qty": 1, "price": 100}
    ]
    """

    styles = getSampleStyleSheet()
    pdf = SimpleDocTemplate(output_file, pagesize=A4)

    content = []

    title = Paragraph(f"<b>INVOICE</b>", styles['Title'])
    content.append(title)
    content.append(Spacer(1, 12))
```

```
[ ]  info = Paragraph(
    f"""
    <b>Invoice Number:</b> {invoice_number}<br/>
    <b>Date:</b> {datetime.now().strftime('%Y-%m-%d')}<br/>
    <b>Customer:</b> {customer_name}
    """,
    styles["Normal"]
)
content.append(info)
content.append(Spacer(1, 20))

data = [{"Item", "Qty", "Unit Price", "Total"}]

total_amount = 0

for entry in items:
    item = entry["item"]
    qty = entry["qty"]
    price = entry["price"]
    line_total = qty * price
    total_amount += line_total

    data.append([item, qty, f"${price:,.2f}", f"${line_total:,.2f}"])

data.append(["", "", "Grand Total", f"${total_amount:,.2f}"])
```



```
11 table = Table(data)
table.setStyle(TableStyle([
    ("BACKGROUND", (0, 0), (-1, 0), colors.lightgrey),
    ("TEXTCOLOR", (0, 0), (-1, 0), colors.black),
    ("ALIGN", (1, 1), (-1, -1), "CENTER"),
    ("GRID", (0, 0), (-1, -1), 0.5, colors.grey),
    ("FONTNAME", (0, 0), (-1, 0), "Helvetica-Bold"),
    ("BACKGROUND", (0, -1), (-1, -1), colors.lightgrey)
]))

content.append(table)
content.append(Spacer(1, 20))

footer = Paragraph("<i>Thank you for your business!</i>", styles["Normal"])
content.append(footer)

pdf.build(content)
print(f"Invoice saved as: {output_file}")

if __name__ == "__main__":
    items = [
        {"item": "Web Design", "qty": 1, "price": 500},
        {"item": "Maintenance", "qty": 2, "price": 75}
    ]
```

```
generate_invoice(
    invoice_number="INV-001",
    customer_name="John Doe",
    items=items,
    output_file="invoice.pdf"
)
```