1.

```
def add_vat(price):
  vat_rate = 0.2  # VAT 20%
  vat_amount = price * vat_rate
  total_cost = price + vat_amount
  return total_cost

meal_price = 20.00
total_cost = add_vat(meal_price)
print(f"The total cost with VAT is: £
{total_cost}")
```

>>> _____

2.

```
vowels = "aEiou"
count = 0
for char in text:
    if char.lower() in vowels:
    count += 1
return count
print(find_vowels("cOdEfez"))
```

>>> _____

3.

```
def linear_search(data, target):
  for i in range(0, len(data)):

    if _____________________________:
      return f"Element found at index: {i}"
result = linear_search([1, 3, 5, 7, 9], 7)
print(result)
```

>>> _____

4.

```
num = 7
if num % 2 == 0:
    print("number is odd")
else:
    print("number is even")
```

Using the code above as an example, write a function called *is_odd* that takes an integer as an argument and returns True if a number is odd.

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5.

```
shop = [
    {"item":"bread", "price":1.2, "qty":1},
    {"item":"milk",  "price":0.9, "qty":2},
    {"item":"eggs",  "price":2.5, "qty":2}
  ]

def calc_total(shop):

  ----------------------------------------

  ----------------------------------------

  return total
```

6.

```
from random import choice

def greeting(name):
  greets = ["Hello", "Bonjour", "Salaam"]

  return ------------------------------------------

print(greeting("Sarah")
```