

7 2 review and reinforcement answer key

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7.2 Review and Reinforcement

Questions:

1. What is the keyword used to define a method?
2. What is the purpose of the "this" keyword?
3. How do you access the superclass of a class?
4. What is the difference between an abstract class and an interface?
5. What is the purpose of the "static" keyword?

Answers:

Paragraph 1:

1. **def** is the keyword used to define a method in Python.

Paragraph 2:

2. The "**this**" keyword refers to the current object of the class. It is used to access the attributes and methods of the object.

Paragraph 3:

3. You can access the superclass of a class using the **super()** function. For example, `super(ChildClass, self)` would access the superclass of the ChildClass.

Paragraph 4:

4. An **abstract class** defines methods that must be implemented in its subclasses. An **interface** defines methods without any implementation, acting as a contract that must be followed by its implementing classes.

Paragraph 5:

5. The "**static**" keyword is used to declare a method or variable that is not associated with any specific object of the class. Static methods can only access static variables and do not require an object instance to be called.

What is the hot process of making soap? Hot process soaps are made using a method that involves making soap from scratch by combining a lye mixture with oils and/or fats. The soap mixture is heated to speed up the saponification process. The application of heat means hot process soap bars are ready to use sooner.

How to add scent to hot process soap? If you are adding fragrance, let the batter to cool for a bit first. Adding fragrance at very high temperatures may cause some of the fragrance to dissipate, leaving you with a faintly scented product. Adding the fragrance under 180°F will help to keep it in your soap instead of in the air around you.

How to make soap using local materials?

How to cold process soap?

Is hot process soap better? The benefit of hot process soap is that once the soap is removed from the mold, it is gentle enough to use. A cure time of 1-2 weeks is still recommended, but not as crucial as cold process soap. This is because the saponification process has been sped up thanks to the extra heat.

Why is my hot process soap not hardening? Soft, squishy soap can be caused by several factors. One reason may be that not enough lye was used in the recipe. If the soap does not contain enough lye, the oils will not saponify. Another reason for soft soap is there was not enough hard oils or butters (such as coconut oil, palm oil or cocoa butter).

How much essential oil is in hot process soap? Essential oils should be added to a soap recipe at a rate of 5-10 drops per pound of base oil. Because the oils are so concentrated, you don't need as much essential oil when you pour soaps. -Measure essential oils and mix them together to create the desired scent.

Why is my hot process soap sweating? Natural soap, with its glycerin retained, can attract humidity due to climate or where it's stored. Especially in humid climates, sweating can be an issue. The best advice is the simplest: Let your soap harden and cure at natural room temperature and then store in a cool, dry place.

How to make homemade soap smell strong? For a strong scent, you can add 0.7 ounces of fragrance or essential oil per pound of cold process soap. For melt and pour, you can add 0.3 ounces per pound. This number will vary based on what oil you choose.

What is the formula for making soap? What is the formula for soap. For centuries, humans have known the basic recipe for soap — it is a reaction between fats and a strong base. The exact chemical formula is $C_{17}H_{35}COO^-$ plus a metal cation, either Na^+ or K^+ . The final molecule is called sodium stearate and is a type of salt.

How to make soap without glycerin or lye? Melt and pour soap is made without ever touching lye yourself. Purchase the premade soap base, cut it into chunks, and melt it down on the stove top until it becomes liquid. Then, stir in whatever your little soaping heart desires. The melted base is poured into a soap mold, and left to cool and harden back up.

What are the 4 methods of making soap? In general, there are four methods to make soap - cold process, melt and pour, hot process, and rebatch.

How to make hot process bar soap? Hot process soap is made by combining oils with sodium hydroxide (lye). The mixture is heated, usually in a crockpot or slow cooker, which accelerates the saponification process. Saponification is the chemical reaction which converts the oils into soap.

Can I use cold process soap after 2 weeks? Curing: Technically, cold process soap is safe to use after a few days. However, we recommend letting the soap cure for 4-6 weeks in a cool, dry place with good airflow.

What does glycerin do in cold process soap? What Is the Purpose of Glycerin in Soap Products? Glycerin is used as a humectant in soap products. In other words, glycerin helps to ensure that your skin will maintain its own moisture in order to protect it from damage caused by dryness.

What pH should hot process soap be? Using our pH 1-14 test strips, test the paste. If your strip reads between pH 7 and 10, the soap is no longer caustic and is safe to touch. With hot process, the soap will gradually take on a waxy appearance while it's over the heat. After a while, stir the soap and it should look like waxy mashed potatoes.

How long to cure hot process soap? The hot process soaps are initially harder and remain harder until the full 8 weeks, often up to 12 weeks, and they contain less water from the cut and up until the full 8 weeks as well. My average minimum cure time for my fluid hot process soaps made at 38% water is usually around 6 weeks. Every recipe is different.

When to cut hot process soap? Hot process soapmaking creates a fully saponified soap before you pour it into the mold. No need to wait a day or so for the soap to fully saponify before cutting — as soon as the soap is cool, it is ready to unmold and slice.

Why is my cold process soap still soft?

Why is my hot process soap crumbly? If your soap crumbles when cutting or appears dry and powdery, it is likely that the soap is too lye-heavy. An abundance of lye in your recipe will be left without an oil to saponify with, thus showing up as free radical particles.

How to avoid stearic spots in soap? Some tips for preventing stearic spots. Soap at warmer temperatures if you are soaping below 85 °F. If your soap is full of oils high in stearic/palmitic acid then you might even consider soaping a bit higher, such as at 100 °F up to 120 °F.

What are the stages of hot process soap? Hot process soap stages include concepts such as “champagne bubbles,” “applesauce stage,” “wet mashed potatoes,” and “dry mashed potatoes.” Every batch is a little different, depending on

your recipe, batch size, the heat of your crockpot and a host of other factors.

What is the hot process of curing soap? Hot process soaps require a shorter cure time. The amount of time varies based on how much water you use in your formulas. I find that two full weeks of curing for my hot process soaps is plenty. (I use a 35% lye solution.) That is a lot less time than the normal cold process cure time of four to six weeks!

What are the processes of making soap?

How hot does soap making get? That's a part of the saponification process where the soap gets hot – up to 180° F. It doesn't affect the quality of the final bars, but it does affect the way they look. Learn more in the All About Gel Phase article. To force gel phase, your lye and oils need to be around 120-130° F.

Who is the publisher of business communication today? Published by Pearson. Business Communication Today 14th edition solutions are available for this textbook.

Who is the author of business communication?

What is the role of business communication today? Effective business communication is how employees and management interact with each other to reach organizational goals and be more aligned with the core company values. Its main purpose is to improve organizational practices, eliminate silos, keep employees informed and reduce errors.

Is the Nikon D5200 entry level? The Nikon D5200 is an interesting camera, placed in the crossover between beginner and enthusiast level.

How old is the Nikon D5200? The Nikon D5200 is an F-mount DSLR camera with a newly developed 24.1-megapixel DX-format CMOS image sensor first announced by Nikon on November 6, 2012 for most of the world and January 7, 2013 for the North American market. 100–6400 in 1/3 EV steps, up to 25,600 as high-boost.

What is Nikon D5200 good for? Nikon fixes that in the D5200 with the same new autofocus and metering systems that debuted in the D600, plus an updated higher-end viewfinder, and the result is a noticeably better shooting experience that makes it an excellent choice for all-around family and vacation photography.

How do I connect my Nikon D5200 to my laptop? Connect the USB cable. After turning the camera off and ensuring that a memory card is inserted, connect a USB cable (available separately) as shown and then turn the camera on. Connect the camera directly to the computer; do not connect the cable via a USB hub or keyboard.

Is Nikon D5200 good in low light? The Nikon D5200 performed fairly well on the low-light test, capturing usable images at the lowest light level (1/16 foot-candle) with the lowest sensitivity setting (ISO 100).

Can Nikon D5200 connect to phone? The D5200 can also utilize the WU-1a wireless mobile adapter which, when used with the free Mobile Utility app, allows you to shoot with the D5200 and download images to your smartphone or tablet.

What was the original price of the Nikon D5200? Nikon D5200 24.1MP DSLR Camera price in India starts from ₹ 14,499.

How much is Nikon D5200 in US? Nikon D5200 and 35mm f/1.8 DX (body weighs 19.6 oz./555 g with battery and card, about \$800, or \$900 with 18-55mm lens).

Do professional photographers use Nikon or Canon? A Shotkit survey found that Nikon D750, Canon 5D Mark IV, Canon 6D, and Canon 5D Mark III have been the most popular DSLR models for professional photographers in 2023. The models on this list were released as early as 2012, so why do pros still use them?

Is the Nikon D5200 wifi capable? The D5200 does not have built-in Wi-fi, but it is compatible with the optional WU-1a wireless mobile adapter. With the Wu-1a attached, the D5200 can connect wirelessly with iOS and Android platform smart devices.

Is the Nikon D5200 weatherproof? D5200 is not weather sealed according to Nikon. However this doesn't mean you cannot use it in slight drizzle. I own a Sony A58 which is not weather sealed too and I've also taken it sometimes in moderate rains.

What is the maximum shutter life of Nikon D5200? For the D5200, Nikon claims a shutter life expectancy of 100 000 actuations. However, it is important to note that

the shutter rating does not provide a guarantee of a certain photo count before shutter maintenance or replacement are needed.

How do I transfer photos from my Nikon D5200 to my phone? Select and transfer photos In the Nikon SnapBridge app, select the photos you want to transfer to your phone. You can do this individually or select multiple photos at once. Then press the transfer button and wait for the process to complete.

What memory does a Nikon D5200 take? Your Nikon D5200 Digital Camera is compatible with 32GB, 64GB and 128GB SD, SDHC and SDXC memory cards.

How do I take pictures with my Nikon D5200?

How do I set my Nikon D5200 to night photography?

What is the best focus mode for Nikon? Best for both moving and still subjects in the frame – AF-A If the camera thinks the subject is static, it switches to AF-S. If the subject moves, it changes to AF-C. High-end cameras don't have AF-A, as there can be a delay when switching between the two modes, which could result in a shot being missed.

Does Nikon D5200 shoot 4k? Nikon D5200 Video Features With Nikon D5200, you can record your videos at a highest resolution of 1920 x 1080 at 60,50,30,25,24 fps and save in MPEG-4 and H. 264 formats.

Does Nikon D5200 have autofocus? The D5200 only autofocuses with the latest AF-S (and older professional AF-I) lenses.

How do I take black and white photos on my Nikon D5200?

How do I transfer photos from my Nikon D5200 to my laptop?

How many megapixels is the Nikon D5200? Its highly sensitive 24.1-megapixel DX-format CMOS image sensor captures your vision with lifelike brilliance—marvel at the vibrant colors and razor-sharp detail, even in low light.

What lens comes with Nikon D5200? The Nikon D5200 comes bundled with the same Nikkor AF-S DX 18-55mm f/3.5-5.6G VR (Vibration Reduction) kit lens the D5100 did.

Is the D5200 a full frame camera? Nikon D5200 Features True, the sensor is close to half the area of a 35mm full frame but, unless you're going to indulge in heavy cropping or demand an enormous print output, the 23.5×15.6mm CMOS will work fine for many.

Is Nikon Z5 entry-level? The Nikon Z5 is Nikon's cheapest full frame mirrorless camera, designed as an entry-point for those who want to upgrade to the larger sensor size. It looks a lot like its premium cousins in the series, the high-resolution Nikon Z7 II and the all-rounder Z6 II.

Is the Nikon D5500 an entry-level camera? Summary. Nikon's D5500 is an upper entry-level DSLR aimed at photographers looking for a step-up from a budget model without the expense or complication of a higher-end camera.

Is the Nikon D5300 an entry-level camera? Nikon's 'advanced beginner' DSLR, the D5300 takes the D5200's place between the entry-level D3200 and the enthusiast-targeted D7100 in the company's APS-C lineup.

Is A Nikon good for beginners? Nikon's digital cameras offer excellent options for photography beginners. These cameras blend user-friendly features with room for growth as skills develop. From compact mirrorless bodies to entry-level full-frames, Nikon provides cameras to jumpstart your photographic journey.

Is Nikon Z5 weatherproof? The Z5 has weather sealing throughout to keep out moisture and dust, which is a welcome addition considering many DSLR entry-level cameras do not have any such sealing.

Is Nikon Z5 good for street photography? While the Nikon Z5 isn't specifically designed for street photography like the Ricoh GR III or Fuji X100V, and while it's larger and heavier than most of the other cameras on this list, it has one standout quality for street photography: it is currently the cheapest Nikon full-frame mirrorless camera on the market.

Is Nikon Z5 good for landscapes? The Nikon Z5 also has some nice features like dual card slots and in-body image stabilization – better than expected for such an inexpensive camera. The fact that the Z5 is “only” #9 on the list shows that Nikon has a lot of good options for landscape photographers to choose from.

What is the most professional Nikon camera? Our top pick, the Nikon Z8, has pretty much everything any amateur or professional could want, including 45.7MP stills, 8K video and burst images at 120FPS. You can shoot absolutely anything with this camera.

Is Nikon better than Canon? Nikon and Canon are as good as each other overall. Each makes equally excellent lenses at the same price points, and each makes DSLRs with the same technical quality in each format. The differences lie in ergonomics and how well each camera handles, which is what allows you to get your photo — or miss it forever.

Do professionals use Nikon? The Nikon Z8 is one of the best professional cameras on the market right now. It has almost everything that the Z9 offers, but comes in a smaller, lighter body.

Which one is better, DSLR or mirrorless? In summary, while both DSLR and mirrorless cameras can shoot excellent video, mirrorless systems offer greater versatility and advanced features, making them a more appealing choice for many videographers.

Is the Nikon D5300 still worth buying? In terms of image quality and performance, the D5300 is a solid performer for its class of camera. Not only does it have great image quality, but the improved resolution and better high ISO performance makes it a clear winner over the D5200.

Is Nikon D5300 good for bird photography? your Nikon d5300 is very good for wildlife photography, as are most of today's cameras. The question you should perhaps ask yourself is “are my lenses OK for wildlife photographing”.

Should I buy an expensive camera as a beginner? Don't forget that a camera's overall performance will also vary depending on the lens you use. As a general rule, it's better to invest in a less expensive camera body and higher-quality lenses than it is to invest in an expensive camera body and cheap lenses.

What is replacing a DSLR camera? With more and more mirrorless models coming onto the market – and fewer and fewer DSLRs – it's clear which way the future lies. Mirrorless cameras give you the advantage in many different scenarios. They are

generally lighter and smaller than their DSLR equivalents – often with smaller and lighter lenses to match, too.

What is a good megapixel for a camera? The amount of megapixels that will suit most photographers' needs is between 10-20 megapixels. If you don't need to print or crop, megapixels won't make too much of a difference for you. Luckily, most high quality DSLR or mirrorless cameras on the market today are all at least 15 megapixels.

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