

Python Variables & If Statement Practice Questions

1. Basic Check

Write a Python program that takes a variable `age = 20`.

If `age` is greater than or equal to 18, print "You are an adult", otherwise print "You are a minor".

2. Even or Odd

Create a variable `num = 15`.

Use an if-else statement to check whether the number is even or odd, and print the result.

3. Positive, Negative or Zero

Write a program with variable `number = -10`.

Use if-elif-else to print whether the number is **positive**, **negative**, or **zero**.

4. Largest of Two Numbers

Let `a = 5` and `b = 9`.

Write an if-else statement to print which variable has the greater value.

5. Grading System

Given `marks = 85`, write a program to print:

- "A Grade" if marks ≥ 80
 - "B Grade" if marks between 60–79
 - "C Grade" if marks between 40–59
 - "Fail" if marks < 40
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6. Login Validation

Set variables:

```
username = "admin"
```

```
password = "1234"
```

Use an if statement to print "Login successful" only if both username and password are correct.

7. Nested If Example

Given `x = 12`, check:

- if x is positive
 - if x is even → print "Positive Even"
 - else → print "Positive Odd"
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8. Discount Calculation

Set `price = 1200`.

If `price > 1000`, apply 10% discount and print the final price; otherwise print "No discount".

9. Multiple Conditions

Set:

```
temperature = 35
```

```
rain = False
```

Use if-elif-else to print:

- "Stay indoors" if `temperature > 30` and not raining
 - "Take an umbrella" if raining
 - "Enjoy the weather" otherwise
-

10. Combine Logic

Create variables:

```
has_ticket = True
```

```
age = 16
```

If the person **has a ticket** and **age \geq 18**, print "Entry allowed".

Otherwise print "Entry denied".