

PYTHON / ANY RELEVANT LANGUAGE

EASY TO HARD PRACTICE QUESTIONS

SUITABLE FOR ANY YEAR GROUP

ANSWERS

```
1. name = input("Enter your name: ")
   age = int(input("Enter your age: "))
   colour = input("Enter your favourite colour: ")
   print(name)
   print(age)
   print(colour)

2. name = input("Enter your name: ")
   surname = input("Enter your surname: ")
   print(name + " " + surname)

3. name = input("Enter your name: ")
   print("Hello, " + name + "! Nice to meet you!")

4. num1 = int(input("Enter number 1: "))
   num2 = int(input("Enter number 2: "))
   print(num1 + num2)
   print(num1 * num2)

5. distance = int(input("Enter a distance: "))
   time = int(input("Enter the time: "))
   print(distance / time)

6. number = int(input("Enter the number of letters in the
   alphabet: "))
   if number == 26:
       print("correct")
   else:
       print("incorrect")

7. radius = int(input("Enter the radius of a circle: "))
   area = 3.14 * radius ** 2
   print(area)

8. number = int(input("Enter a number: "))
   if number % 2 == 0:
       print("number is even")
   else:
       print("number is odd")
```

```
9. food = str(input("Enter your favourite food: "))
   if food == "pizza":
       print("Wow, I love pizza too!")
   elif food == "burger":
       print("I don't link burgers!")
```

```
10. total = 0
    for i in range(10):
        number = int(input("Enter a number: "))
        total = total + number
    print(total)
```

```
** total = 0
   numbertill = int(input("Enter a number: "))
   for i in range(numbertill):
       number = int(input("Enter a number: "))
       total = total + number
   print(total)
```

MEDIUM

1. import random

```
secret_number = random.randint(1, 10)
user_guess = int(input("Guess the number between 1 and 10:
"))
if user_guess == secret_number:
    print('Correct')
else:
    print('Not what I was thinking')
```

```
2. lightcolour = input("Enter the traffic light colour (green,
amber, red): ")
if lightcolour == 'green':
    print('Go.')
elif lightcolour == 'amber':
    print('Get Ready.')
else:
    print('Stop.')
```

```
3. avgtime = int(input("How long on average do you spend
watching TV each day (in hours)? "))
if avgtime < 2:
    print("That should be ok")
elif avgtime <= 2 or avgtime <= 4:
    print("That will rot your brain")
else:
    print("That is too much TV")
```

```
4. temp = int(input("What is the current temperature (in
celsius)? "))
if temp < 0:
    print("It's freezing!")
elif temp <= 0 or temp <= 15:
    print("It's cold!")
elif temp <= 16 or temp <= 25:
    print("It's warm!")
else:
    print("It's hot")
```

```
5. for i in range(1, 21, 2):  
    print(i)
```

OR

```
    for i in range(1, 21):  
        if i % 2 != 0:  
            print(i)
```

```
6. guess = 0  
    while guess != 7:  
        guess = int(input("Guess a number: "))  
        if guess == 7:  
            print("Well Done")  
        else:  
            print("Try again!")
```

```
7. for i in range(1, 31):  
    if (i % 3 == 0) & (i % 5 == 0):  
        print("FizzBuzz")  
    elif i % 3 == 0:  
        print("Fizz")  
    elif i % 5 == 0:  
        print("Buzz")  
    else:  
        print(i)
```

```
8. word = str(input("Enter a word: "))  
    reversed_word = word[::-1]  
    print(reversed_word)
```

```
9. age = int(input("Please enter the age of the member: "))  
    discount = 0  
  
    if 13 <= age <= 15:  
        discount = 0.3  
    elif 16 <= age <= 17:  
        discount = 0.2  
    elif age >= 50:  
        discount = 0.4  
  
    if discount > 0:  
        print("The member receives a " + str(discount * 100) +  
"% discount.")  
    else:  
        print("The member receives no discount.")
```

```
10.array = [1,2,4,5,10]  
    total = 0  
    for i in range(len(array)):  
        total += array[i]  
    print(total)
```

HARD

```
1. numbers = [15, 30, 3, 1, 40]
   numbertofound = int(input("Please type a number: "))
   for i in range(len(numbers)):
       if numbertofound== numbers[i]:
           print(i)

2. present_count = 0
   absent_count = 0

   studentnames = ["John", "Alice", "Bob", "Emma", "David"]

   for i in range(len(studentnames)):
       print("Student:", studentnames[i])
       attendance = input("Is the student present? (yes/no): ")

   if attendance == "yes":
       present_count += 1
   elif attendance == "no":
       absent_count += 1

   print("Total present students:", present_count)
   print("Total absent students:", absent_count)

3. procedure SavePlayers(filename, data)
   file = open(filename)
   file.writeLine(data)
   file.close()
endprocedure

4. function getText(filename)
   file = open(filename)
   data = file.readLine()
   file.close
   return data
endfunction
```



```
5. scores = [
    [1, 10, 2],
    [3, 9, 1],
    [0, 2, 5]
]

total = 0
for i in range(len(scores)):
    for j in range(len(scores[i])):
        total += int(scores[i][j])
print(total)

6. cars = [
    ["BMW", "M1", "20"],
    ["BMW", "320D", "200"],
    ["BMW", "520D", "300"],
    ["Mercedes", "A170", "600"]
]

carmake = (input("Enter a number Make: "))
total = 0
for i in range(len(cars)):
    if cars[i][0] == carmake:
        total += int(cars[i][2])
print(str(carmake) + " sold a total of " + str(total) + " cars!")

7. LowestTeam = ""
LowestScore = -1
teamName = input("Enter the team name (or type 'STOP' to finish)")

while teamName != "STOP"
    score = int(input("Enter a score for " + teamName + ": "))
    if score < LowestScore:
        LowestScore = score
        LowestScoringTeam = teamName

    teamName = input("Enter the team name (or type 'STOP' to finish): ")

print("The team with the Lowest score is " + str(LowestTeam) + " with a score of " + str(LowestScore) + ".")
```

**If you found this
useful, drop a follow
to help me out!**

THANK YOU!

GCST