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Question:1

Take an integer from user as input and check whether the given value is even or not. If the given value is not even then it means that it will be odd. Make use of if-else statement to demonstrate.

```
a = int(input("Enter number: "))

if a % 2 == 0:
    print("Even")
else:
    print("Odd")

Enter number: 5
Odd
```

Question:2

Write a Python code to keep accepting integer values from user until 0 is entered. Display sum of the given values.

```
number = 1
while number != 0:
    number = int(input("Enter a whole number: "))
```

Question:3

Write a Python code to accept an integer value from user and check that whether the given value is prime number or not.

```
num = int(input("Enter a number to check if it's prime: "))

if num > 1:
    is_prime = True
    for i in range(2,num):
        if (num % i) == 0:
            is_prime = False
            break
    if is_prime:
        print("It is a prime number")
    else:
        print("It is not a prime number")
else:
    print("It is not a prime number")
```

Enter a number to check if it's prime: 5
is a prime number

Question:4

Accept 5 integer values from user and display their sum.

```
sum = 0
for i in range(5):
    n = int(input("Enter a number: "))
    sum = sum + n
print(sum)
```

```
Enter a number: 1
Enter a number: 1
Enter a number: 1
Enter a number: 1
Enter a number: 1
5
```

Question:6

Calculate the sum of all the values between 0-10 using while loop

```
sum = 0
i=0
while(i<=10):
    sum = sum + i
    i = i+1
    print(sum)
```

```
0
1
3
6
10
15
21
28
36
45
55
```

Question:6

Take input from the keyboard and use it in your program. (Hint: In Python and many other programming languages you can get user input. In Python the input() function will ask keyboard input from the user. The input function prompts text if a parameter is given. The function reads input from the keyboard, converts it to a string)

```

print("Enter the Quantities of objects:\n")
apple = input()
mango = input()
print("Apples = "+apple)
print("Mangos = "+mango);

```

Enter the Quantities of objects:

```

8
6
Apples = 8
Mangos = 6

```

Question:7

Generate a random number between 1 and 9 (including 1 and 9). Ask the user to guess the number, then tell them whether they guessed too high, too low, or Right. Keep the game going until the user types "exit". Keep track of how many guesses the user has taken, and when the game ends, print this out.

```

import random

secret_number = random.randint(1, 9)

guess_count = 0
while True:
    guess = input("Guess a number between 1 and 9 (or type 'exit' to quit): ")

    if guess.lower() == 'exit':
        break

    try:
        guess = int(guess)
        guess_count += 1

        if guess == secret_number:
            print("Right!")
            break
        elif guess < secret_number:
            print("Too low!")
        else:
            print("Too high!")
    except ValueError:
        print("Invalid input. Please enter a number or 'exit'.")

print(f"You took {guess_count} guesses.")

```