Finding Errors and Debugging

CS1010, Finessefleet Foundation
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Group 1:

1. Jayraj Umath

2. Sandeep Chakravartty

3. G. Vaishali

Q-1: Leap year checker

```
year = int(input("Enter year: "))
if year % 4 == 0 and year % 100 != 0 or year % 400 = 0:
    print(year, "is a Leap year")
else:
    print(year, "is not a Leap year")
```

Q-2: Multiple of 3 and 5

```
for i in range(1, 31):
    if i % 3 == 0
        print(i, "is multiple of 3")
    if i % 5 == 0:
        print(i + " is multiple of 5")
```

Q-3: Simple Login Simulation

```
username = input("Username: ")
password = input("Password: ")
if username == "admin" and password = "1234":
print("Access granted")
else
print("Access denied")
```

Group 2:

    1. Sainath

    2. Sachin

    3. Shivam Singh

Q-1: Age Classification

```
age = input("Enter your age")
if age >= 18
    print("Adult")
else
    print("Minor")
```

Q-2: Password Strength Check

```
password = input("Enter password: ")
if len(password > 8) and ("@" or "#" in password):
    print("Strong Password")
else:
    print("Weak")
```

Q-3: Countdown By 2s

```
num = int(input("Enter starting number: "))
while num >= 0:
print(num)
num = num    2
```

Group 3:

      1. Sruthi

      2. Nitish

      3. Altaaf

Q1: Sum of numbers in Range

```
start = int(input("Enter start number: "))
end = int(input("Enter end number: "))
total = 0
for i in range(start, end)
    total = total + i
print("Sum is: " + total)
```

Q2: Fibonacci Series

```
count = int(input("Enter count: "))
a = 0
b = 1
for i in range(count)
    print(a)
    a = b
    b = a + b
```

Q3: Grade Calculator

```
marks = int(input("Enter marks out of 100: "))
if marks >= 90:
    grade = "A"
elif marks >= 80:
    grade = "B"
elif marks >= 70:
    grade = "C"
elif marks >= 60:
    grade == "D"
else:
    grade = "F"
print("Grade:", grade)
```

Group 4:

1. Ajay Ahirwar

2. Rahul

3. Likhita Reddy

Q1: Fahrenheit to Celsius

```
f = input("Enter temperature in Fahrenheit: ")
c = (f - 32) * 5 / 9
print("Celsius is: ", c)
```

Q2: Number Guessing

```
secret = 5
guess = int(input("Guess a number: "))
while guess != secret:
    print("Wrong! Try again.")
    guess = int(input("Guess: "))
print("You got it!")
```

Q3: Average of Odd Numbers

```
secret = 5
guess = int(input("Guess a number: "))
while guess != secret:
    print("Wrong! Try again.")
    guess = int(input("Guess: "))
print("You got it!")
```

Group 5:

     1. Manikanandan

     2. Senilatha Reddy

     3. Kartik Sahu

Q1: Swapping Two Variables

```python
a = input("Enter a: ")
b = input("Enter b: ")
a = b
b = a
```

```python
print("a is now:", a)
print("b is now:", b)
```

Q2: While Loop Countdown

```python
n = int(input("Enter a number: "))
while n > 0
    print(n)
    n = n     1
```

Q3: Area Of Circle

```python
pi = 3.14
radius = input("Enter radius: ")
area = pi * radius ** 2
print("Area is " + area)
```

Group 6:

    1. Tarush

    2. Sagar

    3. Sweety

Q1: Find Average

```
n = int(input("How many numbers: "))
sum = 0
for i in range(n):
    val = input("Enter number: ")
    sum += val
average = sum / n
print("Average is: " + average)
```

Q2: Simple Calculator

```
a = int(input("Enter first: "))
op = input("Operator: ")
b = int(input("Enter second: "))
if op == "+":
    print("Result:", a + b)
elif op =="-":
    print("Result:", a - b)
elif op == "*":
    print("Result:", a * b)
elif op == "/":
    print("Result:", a / b)
else:
    print("Invalid operator")
```

Q3: Find Largest Even Numbers

```
a = int(input("First number: "))
b = int(input("Second number: "))
c = int(input("Third number: "))
```

```
if a % 2 == 0 and a > b and c:
    max = a
elif b % 2 == 0 and b > c:
    max = b
else:
    max = c
print("Largest even:", max)
```

Group 7:

1. Purshotham
2. A K
3. Sivani Shetty

Q1: Count Vowels

```
text = input("Enter text: ")
vowels = "aeiouAEIOU"
count = 0
for letter in text:
    if letter in vowels
        count = count + 1
print("Vowels:", count)
```

Q2: Reverse String

```
text = input("Enter text: ")
reversed = ""
for i in range(len(text), 0, -1):
    reversed += text[i]
print("Reverse:", reversed)
```

Q3: Even Odd Detector

```
num = input("Enter a number: ")
if num % 2 = 0:
    print("Even number")
else:
    print("Odd number")
```

Group 8:

1. Ricky
2. Sathiya Priya
3. Dharsh

Q1: Factorial Calculator

```
n = int(input("Enter a number: "))
fact = 1
for i in range(1, n)
    fact *= i
print("Factorial is " + fact)
```

Q2: Prime Checker

```
num = int(input("Enter number: "))
for i in range(2, num):
    if num % i == 0
        print("Not Prime")
        break
else:
    print("Prime")
```

Q3: Comparison Operator

```
a = 10
b = 5
if a = b:
    print("a is equal to b")
else
    print("a is not equal to b")
```

Group 9:

    1. Rishant Singh

    2. Sivani Shetty

    3. Lavani

Q1: Even Numbers Loop

```
for i in range(1, 10):
    if i % 2 == 0
        print i
```

Q2: While Loop Exit condition

```
count = 0
while count < 5
    print("Count is:", count)
    count = count + 1
print("Loop ended")
```

Q3: Operator Precedence

```
x = 10
y = 5
z = 2
result = x + y * z - x / z
print("Result is:", result)
```

Group 10:

1. Aryan Reddy
2. Piyush Malviya
3. Sudha

Q1:

```
temp = input("Enter temperature in Celsius: ")
if temp > 30:
    print("It's hot")
elif temp <= 30 and > 20:
    print("Warm")
else:
    print("Cool")
```

Q2: Print Statement

```
print "Welcome to Python Programming"
```

Q3: Nested If-else

```
num = 15
if num > 10:
print("Greater than 10")
if num > 20:
    print("Also greater than 20")
else:
    print("Between 10 and 20")
```

Group 11:

1. Roshan
2. Parveen
3. Kanangadharini Karthikeyan

Q1: Break in loop

```
i = 1
while i < 10:
    if i = 5:
        break
    print(i)
    i += 1
```

Q2: Loop with Unexpected Output

```
for i in range(5, 0):
    print("Countdown:", i)
```

Q3: Input Conversion

```
length = input("Enter the length of the square: ")
area = length * length
print("Area of square is:", area)
```

Group 12:

1. VKrishna
2. Yamuna
3. Vijay

Q1: Invalid Variable Names

```
1name = "Alice"
age-in-years = 20
print("Name:", 1name)
print("Age:", age-in-years)
```

Q2: Variable Assignment

```
name = input("Enter your name: ")
age = input("Enter your age: ")
print("Hello" + name + ", you are " + age + 5 + " years old.")
```

Q3: Operator Mistake

```
base = 3
power = 2
result = base ^ power
print("Result:", result)
```

Group 13:

1. Pravalika Reddy
2. Maddisetti Sai
3. Vamshi Dhar Reddy

Q1: String and Integer Concatenation

```
num1 = input("Enter first number: ")
num2 = input("Enter second number: ")
print("The sum of the two numbers is: " + num1 + num2)
```

Q2: Unintended Infinite Loop

```
i = 0
while i != 5:
    print("i is:", i)
    i = i + 2
```

Q3: Nested If with logical Operator

```
marks = 75
if marks > 50 or marks < 80:
    print("Passed")
else:
    print("Failed")
```