



COMSATS University Islamabad

ASSIGNMENT # 04

Submitted To:

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Submitted By:

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Registration No:

FA25-BDS-023 & FA25-BDS-039

Program:

BDS-1A

Subject:

AICT

Date:

December 3 ,2025

Question 1:

Calculate the age by taking date of birth from the user as input and display age as follows: Your age is XX years, XX months, and XX days.

Python Code

```
import datetime

day = int(input("Enter birth day (1-31): "))

month = int(input("Enter birth month (1-12): "))

year = int(input("Enter birth year: "))

dob = datetime.date(year, month, day)

today = datetime.date.today()

age_in_days = (today - dob).days

years = age_in_days // 365

months = (age_in_days % 365) // 30

days = (age_in_days % 365) % 30

print(f"Your age is {years} years, {months} months and {days} days.")
```

Output:

```
Enter birth day (1-31): 15
Enter birth month (1-12): 3
Enter birth year: 2005
Your age is 20 years, 8 months and 28 days.
```

Question 2:

For any integer received from the user between 0 and 1000, adds all the digits in the integer.
For example, if an integer is 932, the sum of all its digits is 14. Here is a sample run: Enter a number: 999 sum of digits is 27

Python Code:

```
num = input("Enter a number between 0 and 1000: ")  
  
total = 0  
  
for digit in num:  
  
    total += int(digit)  
  
print(f"Sum of digits is: {total}")
```

Output:

```
Enter a number between 0 and 1000: 366  
Sum of digits is: 15
```

Question 3:

How to determine any number to be even or Odd ?

Python Code

```
n = int(input("Enter a number: "))  
  
if n % 2 == 0:  
  
    print("The number is EVEN")  
  
else:  
  
    print("The number is ODD")
```

Output:

```
Enter a number: 77  
The number is ODD
```

```
Enter a number: 88  
The number is EVEN
```

Question 4:

Design the working of calculator by the use of functions.

Python Code

```
print("===== SIMPLE CALCULATOR =====")  
  
def add(a, b):  
    return a + b  
  
def subtract(a, b):  
    return a - b  
  
def multiply(a, b):  
    return a * b  
  
def divide(a, b):  
    if b == 0:  
        return "Error! Division by zero."  
    return a / b  
  
  
a = float(input("Enter first number: "))  
b = float(input("Enter second number: "))
```

```
print("\nSelect Operation:")
print("1. Add")
print("2. Subtract")
print("3. Multiply")
print("4. Divide")

choice = int(input("Enter choice (1-4): "))

if choice == 1:
    print("Result:", add(a, b))
elif choice == 2:
    print("Result:", subtract(a, b))
elif choice == 3:
    print("Result:", multiply(a, b))
elif choice == 4:
    print("Result:", divide(a, b))
else:
    print("Invalid choice!")
```

Output:

```
===== SIMPLE CALCULATOR =====
Enter first number: 77
Enter second number: 90

Select Operation:
1. Add
2. Subtract
3. Multiply
4. Divide
Enter choice (1-4): 1
Result: 167.0
```