

Module 4
Question 1

Alice Total: 397 Percentage: 79.4% Grade: C	Frank Total: 389 Percentage: 77.8% Grade: C
Bob Total: 404 Percentage: 80.8% Grade: B	Grace Total: 415 Percentage: 83% Grade: B
Charlie Total: 458 Percentage: 91.6% Grade: A	Henry Total: 394 Percentage: 78.8% Grade: C
David Total: 375 Percentage: 75% Grade: C	Ivy Total: 421 Percentage: 84.2% Grade: B
Emma Total: 427 Percentage: 85.4% Grade: B	Jack Total: 426 Percentage: 85.2% Grade: B

Module 5

Question 1

```
Enter a name: Martin
M a r t i n
The length of string is: 6
The string in Capital Letters is: MARTIN
The string in Lower Letters is: martin
The string in Proper Case is: Martin
The string in Pattern is: MaRtIn
```

Question 2

```
Menu:
1. Input a string
2. Reverse a string
3. Compare two strings
4. Concatenate two strings
5. Quit
Enter your choice: 1
Enter a string: hello
```

```
Menu:
1. Input a string
2. Reverse a string
3. Compare two strings
4. Concatenate two strings
5. Quit
Enter your choice: 2
Reversed string: olleh
```

```
Menu:
1. Input a string
2. Reverse a string
3. Compare two strings
4. Concatenate two strings
5. Quit
Enter your choice: 1
Enter a string: hello
```

```
Menu:
1. Input a string
2. Reverse a string
3. Compare two strings
4. Concatenate two strings
5. Quit
Enter your choice: 3
Enter the second string: hello
The strings are equal.
```

```
Menu:
1. Input a string
2. Reverse a string
3. Compare two strings
4. Concatenate two strings
5. Quit
Enter your choice: 1
Enter a string: hello
```

```
Menu:
1. Input a string
2. Reverse a string
3. Compare two strings
4. Concatenate two strings
5. Quit
Enter your choice: 3
Enter the second string: hi
The strings are different.
```

```
Menu:
1. Input a string
2. Reverse a string
3. Compare two strings
4. Concatenate two strings
5. Quit
Enter your choice: 1
Enter a string: hello
```

```
Menu:
1. Input a string
2. Reverse a string
3. Compare two strings
4. Concatenate two strings
5. Quit
Enter your choice: 4
Enter the second string: martin
Concatenated string: hellomartin
```

```
Menu:
1. Input a string
2. Reverse a string
3. Compare two strings
4. Concatenate two strings
5. Quit
Enter your choice: 5
Goodbye!
```

Module 6
Question 1

GradeBook for Object Oriented Design

	Test 1	Test 2	Test 3	Test 4	Test 5	Average
Andy	100	90	80	90	95	91.00
Angelo	77	77	77	77	77	77.00
Carlos	45	76	54	61	69	61.00
Casey	98	97	85	61	76	83.40
Fernando	88	72	90	61	99	82.00
Gus	48	75	99	80	65	73.40
Ian	88	92	90	61	69	80.00
Laura	82	73	65	78	91	77.80
Luis	82	73	96	64	67	76.40
Martin	68	66	70	67	65	67.20

Lowest grade is: 45

Highest grade is: 100

Question 2

Normal Deck of Cards:	Shuffled Deck of Cards:
Card 1: Ace of Clubs	Card 1: Five of Hearts
Card 2: Duece of Clubs	Card 2: Nine of Diamonds
Card 3: Three of Clubs	Card 3: Four of Diamonds
Card 4: Four of Clubs	Card 4: Ace of Hearts
Card 5: Five of Clubs	Card 5: Six of Clubs
Card 6: Six of Clubs	Card 6: Nine of Hearts
Card 7: Seven of Clubs	Card 7: Queen of Clubs
Card 8: Eight of Clubs	Card 8: Six of Spades
Card 9: Nine of Clubs	Card 9: Queen of Spades
Card 10: Ten of Clubs	Card 10: Three of Clubs
Card 11: Jack of Clubs	Card 11: Duece of Diamonds
Card 12: Queen of Clubs	Card 12: Nine of Clubs
Card 13: King of Clubs	Card 13: King of Hearts
Card 14: Ace of Diamonds	Card 14: Eight of Spades
Card 15: Duece of Diamonds	Card 15: Ace of Diamonds
Card 16: Three of Diamonds	Card 16: Five of Diamonds
Card 17: Four of Diamonds	Card 17: King of Spades
Card 18: Five of Diamonds	Card 18: Ten of Clubs
Card 19: Six of Diamonds	Card 19: Duece of Spades
Card 20: Seven of Diamonds	Card 20: Nine of Spades
Card 21: Eight of Diamonds	Card 21: Duece of Hearts
Card 22: Nine of Diamonds	Card 22: Six of Diamonds
Card 23: Ten of Diamonds	Card 23: King of Clubs
Card 24: Jack of Diamonds	Card 24: Three of Diamonds
Card 25: Queen of Diamonds	Card 25: Jack of Diamonds
Card 26: King of Diamonds	Card 26: Ten of Hearts
Card 27: Ace of Hearts	Card 27: Ten of Spades
Card 28: Duece of Hearts	Card 28: Six of Hearts
Card 29: Three of Hearts	Card 29: Seven of Hearts
Card 30: Four of Hearts	Card 30: Jack of Clubs
Card 31: Five of Hearts	Card 31: Three of Hearts
Card 32: Six of Hearts	Card 32: Five of Spades
Card 33: Seven of Hearts	Card 33: King of Diamonds
Card 34: Eight of Hearts	Card 34: Seven of Diamonds
Card 35: Nine of Hearts	Card 35: Four of Hearts
Card 36: Ten of Hearts	Card 36: Four of Spades
Card 37: Jack of Hearts	Card 37: Ace of Spades
Card 38: Queen of Hearts	Card 38: Eight of Clubs
Card 39: King of Hearts	Card 39: Queen of Diamonds
Card 40: Ace of Spades	Card 40: Duece of Clubs
Card 41: Duece of Spades	Card 41: Four of Clubs
Card 42: Three of Spades	Card 42: Seven of Spades
Card 43: Four of Spades	Card 43: Three of Spades
Card 44: Five of Spades	Card 44: Ace of Clubs
Card 45: Six of Spades	Card 45: Jack of Hearts
Card 46: Seven of Spades	Card 46: Jack of Spades
Card 47: Eight of Spades	Card 47: Eight of Hearts
Card 48: Nine of Spades	Card 48: Ten of Diamonds
Card 49: Ten of Spades	Card 49: Eight of Diamonds
Card 50: Jack of Spades	Card 50: Seven of Clubs
Card 51: Queen of Spades	Card 51: Queen of Hearts
Card 52: King of Spades	Card 52: Five of Clubs

Module 7

Question 1

```
=====Enter Data for OBJECT1=====
Enter Feet and inches respectively: 5 10
```

```
=====Enter Data for OBJECT2=====
Enter Feet and inches respectively: 5 2
```

Chose your choice

- 1) Addition (+)
- 2) Subtraction (-)
- 3) Multiplication (*)
- 4) Comparision (==)
- 5) Comparision (<)
- 6) Comparision (>)
- 0) Quit

Enter your choice:-1

Result in OBJECT3 as under

Feet : 10

Inches :12

Chose your choice

- 1) Addition (+)
- 2) Subtraction (-)
- 3) Multiplication (*)
- 4) Comparision (==)
- 5) Comparision (<)
- 6) Comparision (>)
- 0) Quit

Enter your choice:-2

Result in OBJECT3 as under

Feet : 0

Inches :8

Chose your choice

- 1) Addition (+)
- 2) Subtraction (-)
- 3) Multiplication (*)
- 4) Comparision (==)
- 5) Comparision (<)
- 6) Comparision (>)
- 0) Quit

Enter your choice:-3

Enter integer to be multiplied:-2

Result in OBJECT3 as under

Feet : 11

Inches :8

Chose your choice

- 1) Addition (+)
- 2) Subtraction (-)
- 3) Multiplication (*)
- 4) Comparision (==)
- 5) Comparision (<)
- 6) Comparision (>)
- 0) Quit

Enter your choice:-4

They are Unequal

```
Chose your choice
1) Addition      ( + )
2) Subtraction   ( - )
3) Multiplication ( * )
4) Comparision   ( == )
5) Comparision   ( < )
6) Comparision   ( > )
0) Quit
Enter your choice:-5
```

Object2 is Less than Object1

```
Object2 is Less than Object1
Chose your choice
1) Addition      ( + )
2) Subtraction   ( - )
3) Multiplication ( * )
4) Comparision   ( == )
5) Comparision   ( < )
6) Comparision   ( > )
0) Quit
Enter your choice:-6
```

Object1 is Greater than Object2

```
Chose your choice
1) Addition      ( + )
2) Subtraction   ( - )
3) Multiplication ( * )
4) Comparision   ( == )
5) Comparision   ( < )
6) Comparision   ( > )
0) Quit
Enter your choice:-0
```

Have a nice day....

Question 2

Current Date in MM DD YYYY

1:15 AM

4/9/2024

```
Enter your birthdate (DD MM YYYY): 07 04 2024
You are 2 days old.
```

```
Enter your birthdate (DD MM YYYY): 14 12 2001
You are 8142 days old.
```