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**Subject : Modern Programming**

**Language (Theory)**

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Q1)

A)

```
num1 = int(input(" First Number: "))
num2 = int(input("Second Number: "))
print("Enter which operation would you like to perform?")
ch = input("Enter any of these char for specific operation +,-,*,/: ")
result = 0
if ch == '+':
    result = num1 + num2
elif ch == '-':
    result = num1 - num2
elif ch == '*':
    result = num1 * num2
elif ch == '/':
    result = num1 / num2
else:
    print("Input character is not recognized!")
print(num1, ch , num2, ":", result)
```

**Q1)**

**B)**

```
fav_num = 24
msg = "My favorite number is " + str(fav_num) + "."
print(msg)
```

Output = 24

**Q2)**

**A)**

```
guests = ['Ali', 'Hamid', 'Zafar']
name = guests[0].title()
print(name + ", please come to dinner.")
name = guests[1].title()
print(name + ", please come to dinner.")
name = guests[2].title()
print(name + ", please come to dinner.")
```

**Q2)**

**B)**

```
# Invite some people to dinner. guests = ['Ali', 'Hamid', 'Zafar']
name = guests[0].title()
print(name + ", please come to dinner.")
name = guests[1].title()
    print(name + ", please come to dinner.")
name = guests[2].title()
print(name + ", please come to dinner.")
name = guests[1].title()
```

```
print("\nSorry, " + name + " can't make it to dinner.")
# Ali can't make it! Let's invite Amna instead.
del(guests[1]) guests.insert(1, 'Amna')
# Print the invitations again.
name = guests[0].title()
print("\n" + name + ", please come to dinner.")
name = guests[1].title()
print(name + ", please come to dinner.")
name = guests[2].title()
print(name + ", please come to dinner.")
```

### Q3)

```
locations = ['Istanbul', 'Monte Carlo', 'Amsterdam', 'Venice', 'New York']
print("Original order:")
print(locations)
print("\nAlphabetical:")
print(sorted(locations))
print("\nOriginal order:")
print(locations)
print("\nReverse alphabetical:")
print(sorted(locations, reverse=True))
print("\nOriginal order:")
print(locations)
print("\nReversed:") locations.reverse()
print(locations)
print("\nOriginal order:") locations.reverse()
print(locations)
print("\nAlphabetical") locations.sort()
print(locations)
print("\nReverse alphabetical") locations.sort(reverse=True)
print(locations)
```