# OBJECT ORIENTED PROGRAMMING


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**ROLL NO: F24_623**

**SEMESTER: 2ND**

**SECTION: C**


**SUBJECT: OOPS**

**SUBMITTED TO: JAMAL ABDUL AHAD**


**DEPARTMENT OF COMPUTER SCIENCE**

**ABBOTTABAD UNIVERSITY OF SCIENCE AND TECHNOLOGY**

# QUESTION NO: 1

```
# List of favorite pizzas
favorite_pizzas = ['pepperoni', 'margherita', 'bbq chicken']

# Print each pizza name with a sentence
for pizza in favorite_pizzas:
    print(f"I like {pizza} pizza.")

# Final statement about how much you like pizza
print("\nPepperoni pizza is so flavorful and classic.")
print("Margherita pizza is light and fresh with basil and mozzarella.")
print("BBQ chicken pizza has a delicious sweet and smoky taste.")
print("I really love pizza!")
```

# QUESTION NO: 2

```
# List of animals that have a common characteristic (they all make great pets)
animals = ['dog', 'cat', 'rabbit']

# Print each animal with a statement
for animal in animals:
    print(f"A {animal} would make a great pet.")

# Final statement about what they have in common
print("\nAny of these animals would make a great pet!")
```

# QUESTION NO: 3

```
# Print numbers from 1 to 20
for number in range(1, 21):
    print(number)
```

# QUESTION NO: 4

```
# Create a list of numbers from 1 to 1,000,000
numbers = list(range(1, 1_000_001))

# Print the first 10 numbers
print("First 10 numbers:")
for number in numbers[:10]:
    print(number)

# Print the last 10 numbers
print("\nLast 10 numbers:")
for number in numbers[-10:]:
    print(number)
```

# QUESTION NO: 5

```
# Create a list of numbers from 1 to 1,000,000
numbers = list(range(1, 1_000_001))

# Use min() and max() to verify the range
print("Minimum number:", min(numbers))
print("Maximum number:", max(numbers))

# Use sum() to calculate the total
print("Sum of numbers from 1 to 1,000,000:", sum(numbers))
```

# QUESTION NO: 6

```
# Create a list of odd numbers from 1 to 20
odd_numbers = list(range(1, 21, 2))

# Print each odd number
for number in odd_numbers:
    print(number)
```

# QUESTION NO: 7

```
# Create a list of multiples of 3 from 3 to 30
multiples_of_3 = list(range(3, 31, 3))

# Print each number in the list
for number in multiples_of_3:
    print(number)
```

# QUESTION NO: 8

```
# Create a list of the first 10 cubes
cubes = []

for number in range(1, 11):
    cube = number ** 3
    cubes.append(cube)

# Print each cube
for cube in cubes:
    print(cube)
```

# QUESTION NO: 9

```
# Create a list of the first 10 cubes
cubes = []

for number in range(1, 11):
    cube = number ** 3
    cubes.append(cube)

# Print each cube
for cube in cubes:
    print(cube)
```

# QUESTION NO: 10

```python
# Create a list of the first 10 cubes
cubes = []

for number in range(1, 11):
    cube = number ** 3
    cubes.append(cube)

# Print each cube
for cube in cubes:
    print(cube)

# Print slices of the list
print("\nThe first three items in the list are:")
print(cubes[:3])  # First three items

print("Three items from the middle of the list are:")
print(cubes[3:6])  # Middle three items (4th, 5th, 6th items)

print("The last three items in the list are:")
print(cubes[-3:])  # Last three items
```