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**SUBJECT: ARTIFICIAL INTELLIGENCE**

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## Lab 07

### Task 1: Function to return product of two numbers

**Ans:**

```
def multiply(a, b):  
    return a * b
```

### Task 2: Function to check even or odd

**Ans:**

```
def check_even_odd(number):  
    if number % 2 == 0:  
        return "Even"  
    else:  
        return "Odd"
```

### Task 3: Function to greet user with name and age

**Ans:**

```
def greet_user(name, age):  
    print(f"Hello {name}, you are {age} years old!")
```

## Lab 08

### **\*Task 1: Simple Calculator with +, -, , /**

**Ans:**

```
def calculator(a, b, operation):  
    if operation == '+':  
        return a + b  
    elif operation == '-':  
        return a - b  
    elif operation == '*':  
        return a * b  
    elif operation == '/':  
        if b != 0:  
            return a / b  
        else:  
            return "Cannot divide by zero"  
    else:  
        return "Invalid operation"
```

### **Task 2: Function to ask shape and print star shape**

**Ans:**

```
def draw_shape():  
    shape = input("triangle").lower()  
    if shape == "triangle":  
        height = int(input("4"))  
        for i in range(1, height + 1):  
            print('*' * i)  
    elif shape == "rectangle":  
        width = int(input("5"))
```

```
height = int(input("3"))  
for i in range(height):  
    print('*' * width)  
else:  
    print("Invalid shape")
```

### **For Triangle**

```
*  
**  
***  
****
```

### **For Rectangle**

```
*****  
*****  
*****
```