1. **Python Program for type checking of various functions.**

# DataType Output: str

x = "Welcome to CSE Department"

print("DataType Output:", type(x))

# DataType Output: int

x = 50

print("DataType Output:", type(x))

# DataType Output: float

x = 60.5

print("DataType Output:", type(x))

# DataType Output: complex

x = 3j

print("DataType Output:", type(x))

# DataType Output: list

x = ["Python", "Programming", "Language"]

print("DataType Output:", type(x))

# DataType Output: tuple

x = ("MIET", "CSE", "Students")

print("DataType Output:", type(x))

# DataType Output: range

x = range(10)

print("DataType Output:", type(x))

# DataType Output: dict

x = {"name": "Kartik", "age": 21}

print("DataType Output:", type(x))

# DataType Output: set

x = {"Data", "Types", "Python"}

print("DataType Output:", type(x))