```
##############
# Question 1 #
##############

x = 5
y = "John"

print(type(x))
print(type(y))
```

```
##############
# Question 2 #
##############

# i.     3a=10        invalid syntax
print("3a=10        invalid syntax")
# ii.    @abc=10      invalid syntax
print("@abc=10      invalid syntax")
# iii.   a100=100     valid syntax
print("a100=100     valid syntax")
# iv.    _a984_=100   valid syntax
print("_a984_=100   valid syntax")
# v.     a9967$=100   invalid syntax
print("a9967$=100   invalid syntax")
# vi.    xyz-2=100    invalid syntax
print("xyz-2=100    invalid syntax")
```

```
##############
# Question 3 #
##############

test_list = [1, 6, 3, 5, 3, 4]

result_3 = test_list.count(3)
result_9 = test_list.count(9)

if result_3 > 0:
   print("3 exists")
else:
   print("3 doesn't exists")

if result_9 > 0:
   print("9 exists")
else:
   print("9 doesn't exists")
```

```
##############
# Question 4 #
##############
from datetime import date

year = int(input("Provide current year\t"))
month = int(input("Provide current month\t"))
day = int(input("Provide current day\t"))
current_date = date(year, month, day)
print(current_date)
```

```
##############
# Question 5 #
##############

print(9 // 2)
print(9 % 2)
```

```
##############
# Question 6 #
##############

for i in range(10):
   print(i + 1)
```

```
##############
# Question 7 #
##############

n = int(input("Enter the numbers required number\t"))
i = 0
for x in range(1, n + 1):
   i = i + x
print(i)
```

```
##############
# Question 8 #
##############

for i in range(50):
   if (i + 1) % 5 == 0 and (i + 1) % 3 == 0:
       print("FizzBuzz")
   elif (i + 1) % 3 == 0:
       print("Fizz")
   elif (i + 1) % 5 == 0:
       print("Buzz")
   else:
       print(i + 1)
```