1) **Is Python case sensitive when dealing with identifiers?**
   - **A.** yes
   - **B.** no
   - **C.** machine dependent
   - **D.** none of the mentioned

2) **Which of the following can be used as a variable name?**
   - **A.** ~variablename
   - **B.** varaiable-name
   - **C.** 5_variablename
   - **D.** Variable_name

3) **Write the output of this code**

```
number = 5
while number <= 5:
    if number < 5:
        number = number + 1
    print(number)
```

Options: -

- **A.** The program will loop indefinitely
- **B.** The value of number will be printed exactly 1 time
- **C.** The while loop will never get executed
- **D.** The value of number will be printed exactly 5 times

4) **Which is the correct operator for power(xy)?**
   - **A.** x^y
   - **B.** x**y
   - **C.** x^^y
   - **D.** None of the mentioned

5) What is the output of this code?

```
i = 0
while i < 3:
        print i
        i++
        print i+1
```

Options: -

A. 0 2 1 3 2 4
B. 0 1 2 3 4 5
C. Error
D. 1 0 2 4 3 5

6) Answer Carefully

Consider the Boolean expression `not (p or not q)`. Give the four following values in order, separated only by spaces:

the value of the expression when `p` is `True`, and `q` is `True`,

the value of the expression when `p` is `True`, and `q` is `False`,

the value of the expression when `p` is `False`, and `q` is `True`,

the value of the expression when `p` is `False`, and `q` is `False`,

Remember, each of the four results you provide should be `True` or `False` with the proper capitalization.

Type your Ans:

7) What is the output of this code?

```
if 4 + 5 == 10:
    print("TRUE")
else:
    print("FALSE")
print("TRUE")
```

Option: -

A. TRUE

B. TRUE
FALSE

C. FALSE
TRUE

D. TRUE
FALSE
TRUE

8) What is the output of this code?

```
x = 6
y = 2
print(x ** y)
print(x // y)
```

Options: -

A. 66
0

B. 36
0

C. 66
3

D. 36
3

9) Which of these is not a core data type?

A. Lists

B. Dictionary

C. Tuples

D. Class

10) The following code contains an infinite loop. Which is the best explanation for why the loop does not terminate?

```
n = 10
answer = 1
while n > 0:
    answer = answer + n
    n = n + 1
print(answer)
```

Options: -

A. n starts at 10 and is incremented by 1 each time through the loop, so it will always be positive.

B. answer starts at 1 and is incremented by n each time, so it will always be positive.

C. You cannot compare n to 0 in the while loop. You must compare it to another variable.

D. In the while loop body, we must set n to False, and this code does not do that.

Write the code for the following programs:

1) **Write a program to take input from user for shopping amount. For amount, greater than 1000 shopkeeper gives 10 percent discount and for amount below 1000 he gives 5 percent discount. Write a program to display percent discount and amount of discount applicable**

2) **Write a program to count the number of digits before and after decimal point in the entered floating point number. Take atlease 4 decimal point floating number as input from user**

3) **Take a large string from user, at every comma (,) divide it in to multiple strings**