Assignment

```
01.
Marks=int(input("Enter Percentage:"))
if Marks>90:
    print("The Grade is A")
elif Marks>80 and Marks<=90:
    print("The Grade is B")
elif Marks>=60 and Marks<=80:
    print("The Grade is C")
else:
   Marks>60
    print("The Grade is D")
02.
Cost=int(input("Enter Cost Price(in Rs)"))
if Cost>100000:
   print("Road Tax to be Pay: {}".format(Cost*0.85))
elif Cost>50000 and Cost<=100000:
   print("Road Tax to be Pay: {}".format(Cost*0.9))
else:
    Cost<=50000
    print("Road Tax to be Pay: {}".format(Cost*0.95))
03.
City=input("Enter the City Name:")
if City=="Delhi":
    print("Red Fort")
elif City=="Agra":
   print("Taj Mahal")
else:
   City=="Jaipur"
   print("Jal Mahal")
04.
n=int(input("Enter Number:"))
for i in range(0,n,3):
    if i<=10:
        print(i)
```

Q5.

In programming, loops are used to repeat a block of code. For example, if we want to show a message 100 times, then we can use a loop.

Python while loop is used to run a block code until a certain condition is met.

The syntax of while loop is:

while condition:

body of while loop

Here,

- 1. A while loop evaluates the condition
- 2. If the condition evaluates to True, the code inside the while loop is executed.
- 3. condition is evaluated again.
- 4. This process continues until the condition is False.
- 5. When condition evaluates to False, the loop stops.

Example:

program to display numbers from 1 to 5

```
i = 1
n = 5
while i <= n:
    print(i)
    i = i + 1</pre>
```

Q6.

```
(i) n=7
for i in range(0,n):
    for j in range(0,i+1):
        print("* ",end="")
    print("\r")

(ii) num_rows = int(input("Enter the number of rows: "))
row = 0
while(row < num_rows):
    row += 1
    s = num_rows - row

sc = 0
    while(sc < s):</pre>
```

```
print(" ", end='')
        sc += 1
    stars = 2*row-1
    while(stars > 0):
        print("*", end='')
        stars -= 1
    print()
(iii) num_rows = int(input("Enter the number of rows: "))
row = 0
while(row < num_rows):</pre>
    row += 1
    s = num_rows - row
    sc = 0
    while(sc < s):
        print(" ", end='')
        sc += 1
    percentage = 2*row-1
    while(percentage > 0):
        print("%", end='')
        percentage -= 1
    print()
Q7.
i = 10
while i > 0:
    print(i)
    i = i - 1
```