** INDIAN SCHOOL AL WADI AL KABIR**

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| **Class: XI IP** | **Department: Computer Science** | **Date of submission:5/09/2023** |
| **Worksheet No: 5** | **Topic: Iterative Constructs in Python** | **Note: Solve in the lab** |

**Section A**

1. Rewrite the following Python code after removing all syntax errors. Underline each correction done in the code.

Num = int (“Enter any Number: “)

Sum = 0

for I in range (10, Num, 3)

Sum+=i

if i%2==0:

print i\*2

Else:

print i\*3

1. How many time(s) the following loop will execute?

for x in range(-300, 300, 100):

print(x, end=” ”)

1. How many time(s) the following loop will execute?

for A in [15, 30, 50, 100]:

print(A,” % ”)

1. How many time(s) the following loop will execute?

for K in range(10):

print(K, end=”@”)

print(K\*2, end=”\n”)

1. Predict the output of the following code fragments:
2. for K in range(11,15):

print(K)

1. for J in range(10):

print(J, end=” ”)

1. for I in range(5, 20, 3):

print(I, end=” \t”)

1. for K in range(200, 100, -30):

print(K, end=”\n”)

1. for J in range(50, 100, 15):

print(J\*2, end=”\*”)

else:

print(“Loop Ends…”)

1. How many time(s) the following loop will execute?

i) for J in range(101,125):

if J % 7 == 0 :

print(J)

ii) i=10

while i <50:

print(“Hello”)

i=i+5

**Section B**

1. Write a program to find factorial value of the given number.
2. Write a program to print the multiplication table of any number given by a user.

num = int(input("Enter the number : "))

1. Write a program to display the factors of a number.
2. Write a program to find the sum of even numbers and odd numbers from 100 to 500 using for loop.
3. Write a program to find the sum of digits of a number entered by user.
4. Write a program to reverse the digits of a number entered by user and display.
5. Write a program to count the number of values divisible by 3 in the range 20-50.
6. Write a program to display the number of values divisible by 5 in the range 101-500.
7. Write a program to display all the values divisible by 8 in the range 200-500 using while loop.
8. Write a program to check whether a number entered by user is palindrome or not.