

Section 8

1) # Program to find sum of all odd and even numbers up to a number specified by user.

```
n = int(input("Enter a no. "))  
odd = 0 # initialize sum of odds to 0  
eve = 0 #  
# initialize sum of even to 0
```

```
for i in Range(n+1):  
    if (i%2 == 0): # if no. is even  
        eve += i  
    else: # if no. is odd  
        odd += i
```

```
Print("sum of all even numbers is: " + str(eve))  
Print("sum of all odd numbers is: " + str(odd))
```

```
Sum = eve + odd  
Print("sum of all numbers odd and even is: "  
      + str(Sum))
```

Unicode in python

Python's string type uses the unicode standard for representing characters, which lets python programs work with all these different possible characters.

Unicode is a specification that aims to list every character used by human languages and give each character its own unique code. ‡

A character is the smallest possible component of a text 'A', 'B', 'C', etc. are all different characters. Characters vary depending on the language or context you are taking about. ❌

Unicode standards describe how characters are represented by code points.

A code point value is an integer in the range 0 to $0x10FFFF$.

For Example

0061 'a'; LATIN SMALL LETTER A

0062 'b'; LATIN SMALL LETTER B

0063 'c'; LATIN SMALL LETTER C

...

0078 '{'; LEFT CURLY BRACKET