

# **25ESCS01- INTRODUCTION TO PROBLEM SOLVING CONTINIOUS ASSESSMENT – 3 & 4**

**EXAM DATE: 19/11/25 (WEDNESDAY)**

**SET: 2 Admission Number: JUUGI202511830**

**Name: ASHUTOSH KUMAR JHA**

**Q1: if..else**

**Code:**

```
❖ if else.py > ...
1   tic = int(input("enter the number of ticket: "))
2   seat =int(input("enter the number of seates: "))
3
4   if tic % 2 != 0:
5       print("Invalid ticket count")
6   elif tic > seat:
7       print("insufficient seats")
8   else:
9       seat -= tic
10      print("!!!seat reserved!!!")
11      print("seats available : ", seat)
12
```

**Output:**

```
enter the number of ticket: 6
enter the number of seates: 20
!!!seat reserved!!!
seats available : 14
```

**Q2: for**

**Code:**

for loop question.py X

```
# for loop question.py > n
1 n = int(input("enter the value of n:"))
2 sum = 0
3 for i in range(1, n+1):
4     if i % 3 == 0:
5         sum += i
6 print(sum)
```

**Output:**

```
enter the value of n:20
63
```

**Q1: while**

**Code:**

```
# while.py > ...
1 n = int(input("enter a value of n:"))
2 while n > 9:
3     s = 0
4     temp = n
5     while temp > 0:
6         s += temp % 10
7         temp //= 10
8     n = s
9
10 print(n)
```

**Output:**

```
enter a value of n:234
9
```

**Q1: functions**

**Code:**

```
function.py > ...
1
2  def is_perfect(n):
3      s = 0
4      for i in range(1, n):
5          if n % i == 0:
6              s += i
7      return s == n
8
9  n = int(input("enter a number :"))
10 print(is_perfect(n))
```

**Output:**

```
PS C:\Users\jhakk\OneD
enter a number :6
True
PS C:\Users\jhakk\OneD
enter a number :8
False
PS C:\Users\jhakk\OneD
```

**Q1: list**

**Code:**

```
list question.py > ...
1  n = int(input("enter the list size: "))
2  a = []
3  for i in range(n):
4      a.append(int(input()))
5  s = 0
6  c = 0
7  for i in a:
8      if i % 2 == 0:
9          s += i
10     else:
11         c += 1
12 list1 = a[:]
13 list2 = a[:]
14 list2.append(s)
15 list3 = a[:]
16 list3.insert(1, c)
17 list4 = list3[:3]
18
19 print("Original List:", list1)
20 print("List after appending sum of even numbers:", list2)
21 print("List after inserting count of odd numbers at index 1:", list3)
22 list3.pop()
23 print("List after removing last element:", list3)
24 print("First 3 elements:", list4)
25 total = sum(a)
26 print("total is:", total)
27 avg = total / len(a)
28 print("Average:", avg)
```

### Output:

```
enter the list size: 5
1
3
5
2
4
Original List: [1, 3, 5, 2, 4]
List after appending sum of even numbers: [1, 3, 5, 2, 4, 6]
List after inserting count of odd numbers at index 1: [1, 3, 3, 5, 2, 4]
List after removing last element: [1, 3, 3, 5, 2]
First 3 elements: [1, 3, 3]
total is: 15
Average: 3.0
```

