

25ESCS01- INTRODUCTION TO PROBLEM SOLVING CONTINUOUS 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

```

