

# Artificial Intelligence (Lab) Assignment - 4

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# **Department:**

Software Engineering Department.

# **Program:**

Artificial Intelligence.

# **Section:**

BSAI-3A

#### Question #1:

Code for LUHN Algorithm

```
Code:
```

```
def LHUN():
  card=input("Enter the Card Number: ")
  total=0
  reverse_card=card[::-1]
  for i in range (len(reverse_card)):
    num=int(reverse_card[i])
     if i\%2 == 1:
       num*=2
       if num>9:
         num-=9
     total+=num
  if total% 10==0:
    print("Valid Card.")
  else:
    print("Invalid Card.")
LHUN()
```

# **Output:**

E:\Uni\3rd Semester\2) Artificial Intelligence (Lab)\Assignments\Assignment 4>python task.py Enter the Card Number: 4782780021055119 Valid Card.

#### Question # 2:

Remove Punctuations from UserInput String (without using remove function)

#### Code:

#### **Output:**

E:\Uni\3rd Semester\2) Artificial Intelligence (Lab)\Assignments\Assignment 4>python task.py
This program will be used to remove all the strings from the sentance.
Enter the sentance: If the number is divisible by 3, instead of saying the number, the player should say, "Fizz".
If the number is divisible by 3 instead of saying the number the player should say Fizz

#### Question #3:

Sort text (word) in Alphabetical Order (without using sort function) can use ASCII

#### Code:

```
def order():
    lines=input("Enter the sentence: ")
    word=lines.split()

for i in range(len(word)-1):
    for j in range(len(word)-i-1):
        if word[j]>word[j+1]:
            word[j],word[j+1]=word[j+1],word[j]

    sorted_lines=" ".join(word)
    print(f"Sorted Lines: {sorted_lines}")
order()
```

# **Output:**

E:\Uni\3rd Semester\2) Artificial Intelligence (Lab)\Assignments\Assignment 4>python task.py Enter the sentence: Hi My Name Is Ali Hello World Sorted Lines: Ali Hello Hi Is My Name World