**ASSIGNMENT-1**

**By**

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**Semester :- 1ST**

**CSE(AI/ML)**

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**Model Institute of Engineering & Technology (Autonomous)**

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**1.In a number system a number is said to be Hit if it is divisible by either sum of all digits or product of all digits otherwise it is said to be Miss.**

**#include <stdio.h>**

**int sumOfDigits(int n)**

**{**

**int sum = 0;**

**while (n > 0)**

**{**

**sum += n % 10;**

**n /= 10;**

**}**

**return sum;**

**}**

**int productOfDigits(int n)**

**{**

**int product = 1;**

**while (n > 0)**

**{**

**product \*= n % 10;**

**n /= 10;**

**}**

**return product;**

**}**

**void checkHitOrMiss(int n)**

**{**

**int sum = sumOfDigits(n);**

**int product = productOfDigits(n);**

**if (n % sum == 0 || n % product == 0)**

**{**

**printf("Hit\n");**

**}**

**else**

**{**

**printf("Miss\n");**

**}**

**}**

****

2.Write a program for change all the first letter as caps in sentence.

#include <stdio.h>

#include <ctype.h>

void capitalizeFirstLetter(char \*sentence)

{

int i;

sentence[0] = toupper(sentence[0]);

for (i = 1; sentence[i] != '\0'; i++)

{

if (sentence[i - 1] == ' ' || sentence[i - 1] == '\t')

{

sentence[i] = toupper(sentence[i]);

}

}

}

int main()

{

char sentence[100];

printf("Enter a sentence: ");

fgets(sentence, sizeof(sentence), stdin);

capitalizeFirstLetter(sentence);

printf("AFTER CAPITALISATON %s\n", sentence);

return 0;

}

