ARPAN ARUN BANDIWADEKAR

D-407

D1

202201090062

ESSENTIALS OF DATA SCIENCE

ASSIGNMENT 1

STUDENT DATASHEET

STUDENT ID		NAME	ENGLISH		MATHS SCIENCE			SOCIAL STIDIES MARATHI
401	ALVIN	90	85	87	98	75		
402	ANAND	58	75	84	94	79		
403	VAISHN	IAVI	49	94	78	87	68	
404	ARHAN	Т	94	87	94	78	87	
405	ATHARA	ΑV	80	87	68	69	89	
406	GANES	Н	90	65	50	88	97	
407	ARPAN	URF BH	ΔI	100	100	100	100	100
408	PRATIK	71	75	74	81	93		
409	ISHIKA	56	84	77	38	96		
410	DHANA	SHREE	45	67	39	97	76	

CODE:

```
with open('STUDENT_DATASHEET.csv', 'r') as file:
    data = file.readlines()
data = [row.strip().split(',') for row in data[1:]]
print(data)
```

```
eng_grade = [float(row[2]) for row in data]
maths_grade = [float(row[3]) for row in data]
science_grade = [float(row[4]) for row in data]
```

```
social_studies_grade = [float(row[5]) for row in data]
marathi_grade = [float(row[6]) for row in data]
def average(a_list):
  sum = 0
  for element in a_list:
    sum += element
  return sum/len(a_list)
def high(a_list):
  high = 0
  for element in a_list:
    if element > high:
      high = element
  return high
def sum(a_list):
  sum = 0
  for grade in a_list:
    sum += grade
  return sum
def per(a_list):
  None
print('English')
print('average', (average(eng_grade)))
print('sum',sum(eng_grade))
print('highest: ', high(eng_grade))
print('\n')
print('mathematics')
```

```
print('average', (average(maths_grade)))
print('sum',sum(maths_grade))
print('highest: ', high(maths_grade))
print('\n')
print('Science')
print('average', (average(science_grade)))
print('sum',sum(science_grade))
print('highest: ', high(science_grade))
print('\n')
print('Social Studies')
print('average', (average(social_studies_grade)))
print('sum',sum(social_studies_grade))
print('highest: ', high(social_studies_grade))
print('\n')
print('Marathi')
print('average', (average(marathi_grade)))
print('sum',sum(marathi_grade))
print('highest: ', high(marathi_grade))
output:
PS C:\Users\Arpan\OneDrive\Desktop\ARPAN BANDIWADEKAR\EDS_ASSIGNMENT_1> &
"C:/Users/Arpan/OneDrive/Desktop/ARPAN BANDIWADEKAR/SEMESTERS/FY SEM2
SUBJECTS/ESSENTIALS OF DATA SCIENCE/python.exe" "c:/Users/Arpan/OneDrive/Desktop/ARPAN
BANDIWADEKAR/EDS_ASSIGNMENT_1/stud_datasheet.py"
[['401', 'ALVIN', '90', '85', '87', '98', '75'], ['402', 'ANAND', '58', '75', '84', '94', '79'], ['403', 'VAISHNAVI',
'49', '94', '78', '87', '68'], ['404', 'ARHANT', '94', '87', '94', '78', '87'], ['405', 'ATHARAV', '80', '87', '68',
'69', '89'], ['406', 'GANESH', '90', '65', '50', '88', '97'], ['407', 'ARPAN URF BHAI', '100', '100', '100',
'100', '100'], ['408', 'PRATIK', '71', '75', '74', '81', '93'], ['409', 'ISHIKA', '56', '84', '77', '38', '96'], ['410',
'DHANASHREE', '45', '67', '39', '97', '76']]
English
average 73.3
```

mathematics

average 81.9

sum 819.0

highest: 100.0

Science

average 75.1

sum 751.0

highest: 100.0

Social Studies

average 83.0

sum 830.0

highest: 100.0

Marathi

average 86.0

sum 860.0

highest: 100.0

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