```
warning('off','all')
% Read data from excel
result = readtable('MCS_3.1.xlsx');
% Write the table to a CSV file
writetable(result, 'MCS_3.1.csv');

studentinfo = table2array(result(:,[1,2]));
scores = table2array(readtable('MCS_3.1.xlsx','Range','C2:G169'));
units = string(result.Properties.VariableNames(3:end));
% Input the reg number
reg = input('Enter the registration number for students:','s');
% Print transcript
fprintf("\tSTUDENT'S TRANSCRIPT\n")
```

STUDENT'S TRANSCRIPT

```
printTranscript(scores,reg,units,studentinfo);
```

Student Name: Kiprotich Denis

Registration Number: SCM211-0749/2019

UNITS	SCORES	GRADE
ODE	100	A
TimeSeriesAnalysis1	55	C
ScientificComputing	43	D
ComputerNetworks	84	A
OperationResearch	90	А

MEAN PER UNIT

```
fprintf('%-30s%-20s%s\n', ' UNITS ',' AVERAGE ',' GRADE ');
```

UNITS AVERAGE GRADE

```
for j=1:length(units)
    fprintf('%-30s%-30.2f%-15s
\n',units(j),mean(scores(:,j)),grade(mean(scores(:,j))));
end
```

ODE	67.90	В
TimeSeriesAnalysis1	69.06	В
ScientificComputing	70.22	A

ComputerNetworks 71.18 A
OperationResearch 67.85 B

```
% Print student's table with marks
fprintf("\t\tSTUDENT\'S TABLE\n\n")
```

STUDENT'S TABLE

```
% Get the size of the table
[numRows, numCols] = size(result);

% Define the fixed width for columns
columnWidth = 30;

% Print the column headers with fixed width
for j = 1:numCols
    if j == 1
        fprintf('%-20s', result.Properties.VariableNames{j}); % First column
width
    else
        fprintf('%-30s', result.Properties.VariableNames{j}); % Subsequent
columns width
    end
end
```

S\_NO
Names ODE TimeSeriesAnalysis1 ScientificComput

```
fprintf('\n');

% Nested for loops to iterate through each element of the table
for i = 1:numRows
    for j = 1:numCols
        % Access the element at (i, j)
        element = result{i, j};

        % Print the element with fixed width
        if j == 1
             fprintf('%-20s', string(element)); % First column width
        else
             fprintf('%-30s', string(element)); % Subsequent columns width
        end
    end
    fprintf('\n');
end
```

SC261-0953/2014

Mwangi B Muriithi 63 56 97
SC261-4631/2012

Oswago Solomon Otieno 79 44 61
SCM211-0182/2019

Ngoma Kudunda Stauffer SCM211-0183/2019	75	54	82
Kathare Dorcas Kendi SCM211-0184/2019	76	42	77
Kiyai C Faith scm211-0185/2019	59	51	87
Kiplimo Luis scm211-0186/2019	81	90	82
Gichohi Mary Wanjiru SCM211-0187/2019	78	44	97
Ddaiddo Shirley Mbeyu scm211-0188/2019	67	58	81
Ngari Dennis Mathari SCM211-0189/2019	78	80	82
Wairagu Wanjiru Paulet Serah SCM211-0190/2019	75	59	51
Njuguna Yvonne Mary Mugure SCM211-0191/2019	60	73	48
Sophia Njeri Kogi SCM211-0192/2019	71	44	63
Kirimi Sharon Mwendwa SCM211-0193/2019	48	91	68
Kimani Abigael Mumbi SCM211-0194/2019	59	68	92
Muchiiri Kamande Francis SCM211-0195/2019	55	43	97
Kipsang Marion Cherotich SCM211-0197/2019	45	90	67
Nduku George Karanja SCM211-0198/2019	86	86	71
Claudette Chepkirui Rutoh SCM211-0199/2019	63	50	47
Kamau Joseph Mwangi SCM211-0200/2019	91	46	66
Muchai Joseph Kinuthia scm211-0201/2019	55	41	43
Benson Wambua	49	81	50
SCM211-0202/2019 Wambua Bonface Mboya	79	82	43
scm211-0203/2019 Ilako Halfamaton Ngesu	77	86	42
SCM211-0204/2019 Laitete Emmaculate Sintoya	64	88	86
SCM211-0205/2019 Muoki Ashley Mbeke	58	94	59
SCM211-0206/2019 Samuel Gregory Muthui	57	57	98
scm211-0207/2019 Samuel Musyimi	57	42	52
SCM211-0208/2019 Nzambi Grace Mutethya	89	48	91
SCM211-0209/2019 Shariff Abdi Dakane	75	46	96
SCM211-0210/2017 Njoroge M Maina	73	79	47
SCM211-0210/2019 Lillian Njeri Warui	58	89	63
SCM211-0211/2019 Jacob Mutharimi George	93	41	85
SCM211-0213/2017 Kaumo Shadrack Ngui	68	79	88
SCM211-0213/2019 Mwinzi Christopher Mutati	51	48	100
SCM211-0214/2019			

Muthoki Sharon	91	94	52
SCM211-0215/2019			
Thomas Christine Mbili SCM211-0216/2019	91	75	60
Munguti Mike Mulei SCM211-0217/2019	41	72	65
Munyaka Dennis Musembi SCM211-0218/2019	61	50	55
Nyabaga Vanessa Nyatuga SCM211-0219/2019	80	52	76
Bundi Christine Kinya SCM211-0220/2019	60	90	57
Mbae Japheth Karani	50	79	80
SCM211-0221/2019 Wenani Henry	64	77	90
SCM211-0222/2019 Chelsea Njeri Kariuki	41	96	56
SCM211-0224/2019 Kaiga Stephen Githinji	91	69	49
SCM211-0225/2019 Naika Lucianne Wambui	0.0	4.6	<i>C</i> 2
SCM211-0226/2019	98	46	63
Rutto Caren Jerop SCM211-0227/2019	96	57	90
Atieno Rufina SCM211-0228/2019	80	97	46
Kioko Alexander	72	65	82
SCM211-0230/2019	, 2		02
Ndemo Nancy Nyanduko SCM211-0231/2019	58	79	60
Roy Liyai Bandi SCM211-0232/2019	96	85	62
Kariuki Elizabeth Wanjiru SCM211-0233/2019	80	82	89
Muthengia Maxwell Githumbi SCM211-0234/2019	74	85	51
Ngubo Benson Momanyi SCM211-0235/2019	97	49	83
Simiyu Samuel Wambeo	56	91	69
SCM211-0236/2018 Jacob Joseph Mukula	81	44	95
SCM211-0236/2019			
Otieno Sara Achieng SCM211-0237/2017	49	74	71
Kiplagat Meshack Kiprono SCM211-0237/2019	74	52	77
Macharia Allan Kariuki	72	45	55
SCM211-0238/2019	77	0.2	12
James Nginya SCM211-0239/2019	11	93	43
Kibet Kevin Kipkemboi SCM211-0240/2019	48	76	77
Macharia Christopher Maina SCM211-0241/2019	90	46	83
Muchori Phyllis Stacy Muthoni SCM211-0242/2019	53	65	71
Ndiritu Denis Mwai	97	62	96
SCM211-0243/2018 Mutinda Johnes Maweu	73	95	64
SCM211-0243/2019 Ngunu Ceasar Njuguna	41	72	52
SCM211-0244/2019			
Okongo Austine Okoth SCM211-0245/2019	81	42	89

Mwangi Peter Chege SCM211-0246/2019	40	89	88
Too Daniel Kipngetich SCM211-0247/2019	62	60	80
Erissat Allan Okedo SCM211-0248/2019	53	95	78
Maina Muthoni Melinda SCM211-0249/2019	66	63	40
Mwaniki Nancy Wangui SCM211-0250/2019	93	99	87
Maina Nancy Wambui SCM211-0251/2019	40	52	53
John Igwanya SCM211-0252/2019	91	56	43
Carolyne Wanjiru Njoroge SCM211-0253/2019	51	49	60
Ngugi Patience Wangui SCM211-0254/2019	80	57	43
Gitonga Dennis Kamau scm211-0255/2019	61	86	78
Lopeyok Patrick Ngolokan scm211-0256/2019	45	75	58
Kipngeno Kelvin SCM211-0257/2017	72	90	69
Nyagah Kelvin SCM211-0257/2019	99	90	90
Ndegwa Mike Munene SCM211-0259/2019	83	76	46
Wang`ombe Joseph Mwangi SCM211-0260/2019	49	47	86
Wahome John Nyaga SCM211-0261/2019	48	58	48
Munyekenye Awino Winfresher SCM211-0262/2019	94	55	63
Robert W Barasa	46	62	64
SCM211-0263/2019 Bosibori Peris Oseko	99	62	89
SCM211-0264/2019 Maulidi Hassan Namte	48	94	85
SCM211-0265/2019 Otieno Samwel Okeyo	75	85	89
SCM211-0266/2019 Ngare K Rebecca Mitchelle	55	61	94
SCM211-0267/2019 Oluchiri Patrick Lumumba	89	85	77
SCM211-0268/2019 Amukhoye Simon	53	44	40
SCM211-0269/2019 Mutete Sydlik Tola	99	96	74
SCM211-0271/2019 Otieno Cynthia Awuor	44	51	100
SCM211-0272/2019 Omwenga Edwin Ratemo	69	69	41
SCM211-0273/2019			
Odhiambo Robinson S Okeyo SCM211-0274/2018	43	60	66
Amon Kipkogei Kurgat SCM211-0274/2019	97	69	73
Otwori Isaac Moindi SCM211-0275/2019	79	93	53
Elly James Komunga SCM211-0276/2019	75	62	98
Juma Gideon Yuri Ochieng SCM211-0277/2019	88	97	72

Otieno Frankline Otieno SCM211-0278/2019	96	44	71
Okumu Nashon Omondi SCM211-0280/2019	77	83	59
Nyangige Daniel Junior SCM211-0281/2019	41	67	89
Boke Elishaphat Chacha SCM211-0282/2019	45	88	64
Ogutu Fredrick Okeyo SCM211-0288/2018	62	48	55
Opondo Vivian Adhiambo SCM211-0347/2016	49	47	52
Nyaosi Nyanchama SCM211-0409/2016	48	92	43
Okora Dancan SCM211-0607/2019	54	45	90
Tom Odhiambo SCM211-0609/2019	53	83	62
Kirui Shimron Kipyator SCM211-0610/2019	91	81	81
Wahome Kezia Wangeci SCM211-0611/2019	83	80	59
Ngugi Dellis Marandi SCM211-0612/2019	48	89	93
Igamba Daisy Mukami SCM211-0613/2019	51	71	74
Muthoni Joseph Thuku SCM211-0614/2019	51	59	77
Silas Otieno Ogot SCM211-0615/2019	74	54	69
Kiplimo Kiplagat Edwin SCM211-0616/2019	55	84	67
Odera Enos Meneffee scm211-0617/2019	96	55	71
Kipyegon Amos Bett SCM211-0618/2019	64	58	58
Kangangi Joy Wanjiku SCM211-0619/2019	41	77	53
Marura Dennis Ondiek SCM211-0680/2019	55	78	41
Raymond Chege Maina SCM211-0683/2019	47	83	65
Otieno Opondo Luke SCM211-0686/2017	71	87	90
Muturi Derrick SCM211-0724/2018	76	47	90
Kirika Saraphinah Njeri SCM211-0747/2018	66	65	71
Kariuki Brian Muthaithi SCM211-0749/2019	40	49	50
Kiprotich Denis SCM211-0750/2019	100	55	43
Ngonyo Laura Njeri SCM211-0751/2019	93	84	53
Ngotho Anthony Mwangi SCM211-0752/2019	69	68	62
Atunga Elijah Mbeki SCM211-0753/2019	40	86	61
Timothy Ramadhan Kavaya SCM211-0754/2019	41	65	90
Ondara Hesbon Nyambane SCM211-0755/2019	77	63	54
Onkui Gifty Kerubo SCM211-0756/2019	48	94	72

Murithi K Ian SCM211-0757/2019	45	62	41
Kinyanjui Joseph Ngahu SCM211-0758/2019	43	86	62
Kimokiy Jelel Faith	88	40	100
SCM211-0759/2019 Ntonja Elijah Mutethia SCM211-0760/2019	96	69	58
Daniel Njeru Kariuki SCM211-0761/2019	52	47	80
Mbugua J. Wangari SCM211-0762/2019	43	99	72
Denis Kiplangat Kogo SCM211-0763/2019	50	86	44
Mbau Martin Gichuki SCM211-0764/2019	60	49	99
Ondenyi Ombesta Nicholus SCM211-0765/2019	89	44	75
Otieno Leah Gloria SCM211-0766/2019	69	54	75
Gakuya Pennina Nyawira SCM211-0767/2019	77	92	66
Ngugi Felix Thuo SCM211-0768/2019	92	40	70
Machoni Onchari Haron SCM211-0773/2018	98	63	90
Kiprop Emmanuel SCM211-0785/2019	54	52	74
Kivayilu Meshackingaiza SCM211-0787/2019	79	87	80
Kawala Ephraim Ochieng SCM211-0790/2019	54	87	56
Muema Joel Mutinda SCM211-0794/2019	63	89	77
Nassir Muhammmed Doffa SCM211-0795/2019	63	77	83
Maxwell Newton Murithi SCM211-0796/2019	91	79	41
Gichana Eric Nyaega SCM211-0837/2018	80	64	44
Kaluku Bruce Nungu SCM211-0843/2018	76	74	89
Muguna Lewis SCM211-0869/2018	87	69	87
Kithaka Charity Wanjiku SCM211-0870/2018	40	91	96
Muriithi Anthony Mwangi SCM221-0620/2018	88	44	48
Mwangi Ben Ruwel Mugwe SCM221-2107/2015	65	87	92
James Njenga SCM211-0681/2018	79	53	94
William Mwendwa Nzuli SCM211-0293/2018	71	46	55
Erick Ochieng Obuya SCM211-0263/2018	89	97	77
Peter Nyanza Isabwa SCM221-0953/2014	60	84	61
Mwangi B. Muriithi SCM211-0401/2016	53	75	99
Solomon Khaluhi SCM211-0298/2018	50	56	70
Janam Ouko SCM211-0243/2017	51	50	86

```
76
Nam Vincent Aburili
                                                               91
                                                                                              69
SCM211-0549/2017
Ochango Edwin Temba
                               55
                                                               83
                                                                                              61
SCM211-0208/2018
Karani Francis Machine
                               58
                                                               67
                                                                                              99
SCM211-0596/2017
Kibe Benard Thairu
                                                               58
                                                                                              81
SCM211-1781/2015
                               52
                                                               87
                                                                                              61
Benson Mutembei Gitonga
SCm211-0258/2017
TOM Kipkurui
                               93
                                                               82
                                                                                              64
```

```
% Function for Printing Student's Transcript
function [] = printTranscript(scores,reg,units,studentinfo)
    for i=1:length(string(studentinfo(:,1)))
        if strcmp(string(studentinfo(i,1)), reg)
            fprintf('%s: %s\n\n%s:
%s\n\n','Student Name',string(studentinfo(i,2)),'Registration
Number',string(studentinfo(i,1)));
            fprintf('%-30s%-30s%-30s\n', 'UNITS','SCORES','GRADE');
            for k=1:length(units)
                fprintf('\n%-40s %-40d
%-10s\n',units(k),scores(i,k),grade(scores(i,k)));
            end
            break
        end
    end
end
% Function for Grading the scores
function grd = grade(scores)
    if scores>=70
        grd = 'A';
    elseif scores>=60
        grd = 'B';
    elseif scores>=50
        grd = 'C';
    elseif scores>=40
        grd = 'D';
    else
        grd = 'E';
    end
end
```