WorkShop 3B

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Section 9.11:

Problem 6:

Code:

```
*9.11.6.sas    ×

CODE      LOG      RESULTS      OUTPUT DATA

1  data learn.medic;
2  set learn.medical;
3  format visitdate date9.;
4  dayofweek=put(visitdate, downame.);
5  monthofyear=put(visitdate,monname.);
6  run;
7  proc print data=learn.medic;
8  run;
9  proc freq data=medic;
10 tables dayofweek ;
11 format dayofweek downame.;
12 run;
```
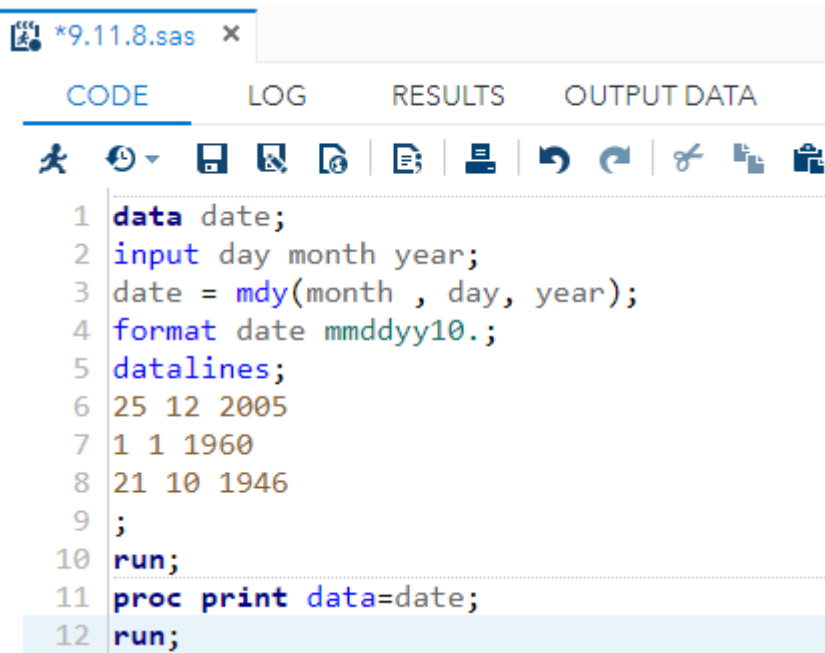
Result:

Obs	Patno	Clinic	VisitDate	Weight	HR	DX	Comment	dayofweek	monthofyear
1	001	Mayo Clinic	21OCT2006	120	78	7	Patient has had a persistent cough for 3 weeks.	Saturday	October
2	003	HMC	01SEP2006	166	58	8	Patient placed on beta-blockers on 7/1/2006	Friday	September
3	002	Mayo Clinic	01OCT2006	210	68	9	Patient has been on antibiotics for 10 days	Sunday	October
4	004	HMC	11NOV2006	288	88	9	Patient advised to lose some weight	Saturday	November
5	007	Mayo Clinic	01MAY2006	180	54	7	This patient is always under high stress	Monday	May
6	050	HMC	06JUL2006	199	60	123	Refer this patient to mental health for evaluation	Thursday	July

The FREQ Procedure

dayofweek	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Saturday	1	16.67	1	16.67
Sunday	1	16.67	2	33.33
Wednesday	1	16.67	3	50.00
Thursday	1	16.67	4	66.67
Friday	2	33.33	6	100.00

Problem 8:
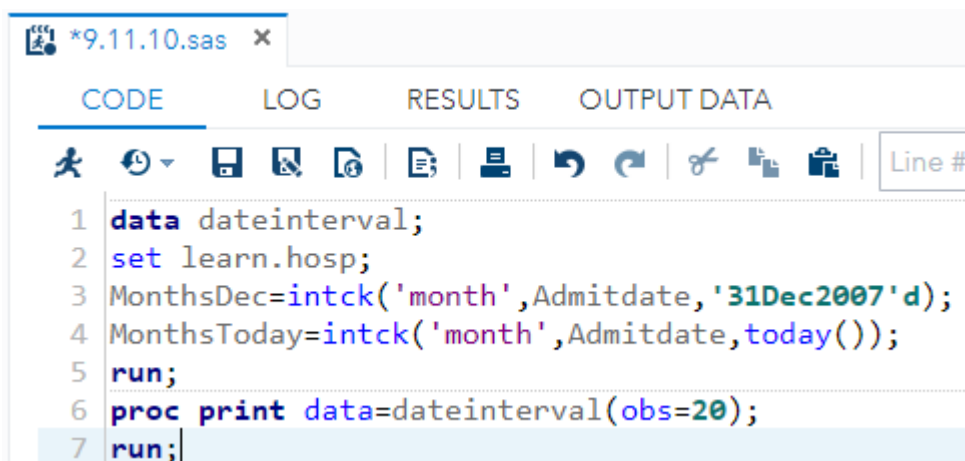
Code:

```
*9.11.8.sas  ×

CODE       LOG       RESULTS       OUTPUT DATA

1  data date;
2  input day month year;
3  date = mdy(month , day, year);
4  format date mmddyy10.;
5  datalines;
6  25 12 2005
7  1 1 1960
8  21 10 1946
9  ;
10 run;
11 proc print data=date;
12 run;
```

Result:

Obs	day	month	year	date
1	25	12	2005	12/25/2005
2	1	1	1960	01/01/1960
3	21	10	1946	10/21/1946

Problem 10:

Code:

```
*9.11.10.sas  ×

CODE       LOG       RESULTS       OUTPUT DATA                    Line #

1  data dateinterval;
2  set learn.hosp;
3  MonthsDec=intck('month',Admitdate,'31Dec2007'd);
4  MonthsToday=intck('month',Admitdate,today());
5  run;
6  proc print data=dateinterval(obs=20);
7  run;
```

Result:

Obs	AdmitDate	quarter	DOB	DischrDate	Subject	MonthsDec	MonthsToday
1	03/28/2003	4	09/15/1926	04/12/2003	1	57	215
2	03/28/2003	4	07/08/1950	04/17/2003	2	57	215
3	03/28/2003	4	12/30/1981	03/28/2003	3	57	215
4	03/28/2003	4	06/11/1942	03/29/2003	4	57	215
5	08/03/2003	6	06/28/1928	08/12/2003	5	52	210
6	08/03/2003	6	01/20/1936	08/07/2003	6	52	210
7	08/03/2003	6	11/12/1963	08/08/2003	7	52	210
8	08/03/2003	6	10/26/1948	08/15/2003	8	52	210
9	08/03/2003	6	05/23/1932	08/07/2003	9	52	210
10	08/03/2003	6	04/27/1959	08/10/2003	10	52	210
11	03/25/2004	8	01/06/1937	03/26/2004	11	45	203
12	03/25/2004	8	05/29/1962	04/03/2004	12	45	203
13	03/25/2004	8	05/01/1944	03/26/2004	13	45	203
14	03/25/2004	8	10/18/1976	03/30/2004	14	45	203
15	03/25/2004	8	05/01/1982	04/06/2004	15	45	203
16	03/25/2004	8	03/29/1940	04/06/2004	16	45	203
17	03/25/2004	8	11/02/1980	04/17/2004	17	45	203
18	03/25/2004	8	08/09/1978	04/08/2004	18	45	203
19	07/12/2005	14	08/24/1986	07/15/2005	19	29	187
20	07/12/2005	14	03/15/1976	07/12/2005	20	29	187

Section 11.13:

Problem 8:

Code:

```
*11.13.8.sas  ×

CODE      LOG      RESULTS      OUTPUT DATA

1  data random;
2  do i=1 to 1000;
3  x=int(ranuni(0)*5)+1;
4  output;
5  end;
6  run;
7  proc freq data=random;
8  tables x;
9  run;
```

Result:

The FREQ Procedure

x	Frequency	Percent	Cumulative Frequency	Cumulative Percent
1	215	21.50	215	21.50
2	200	20.00	415	41.50
3	200	20.00	615	61.50
4	192	19.20	807	80.70
5	193	19.30	1000	100.00

Problem 10:

Code:

```
data Convert;
set learn.char_num;
NumAge=input(Age,8.);
NumWeight=input(Weight,8.);
CharSS=put(ss,ssn.);
CharZip=put(zip,z5.);
run;
proc print data=convert;run;
```
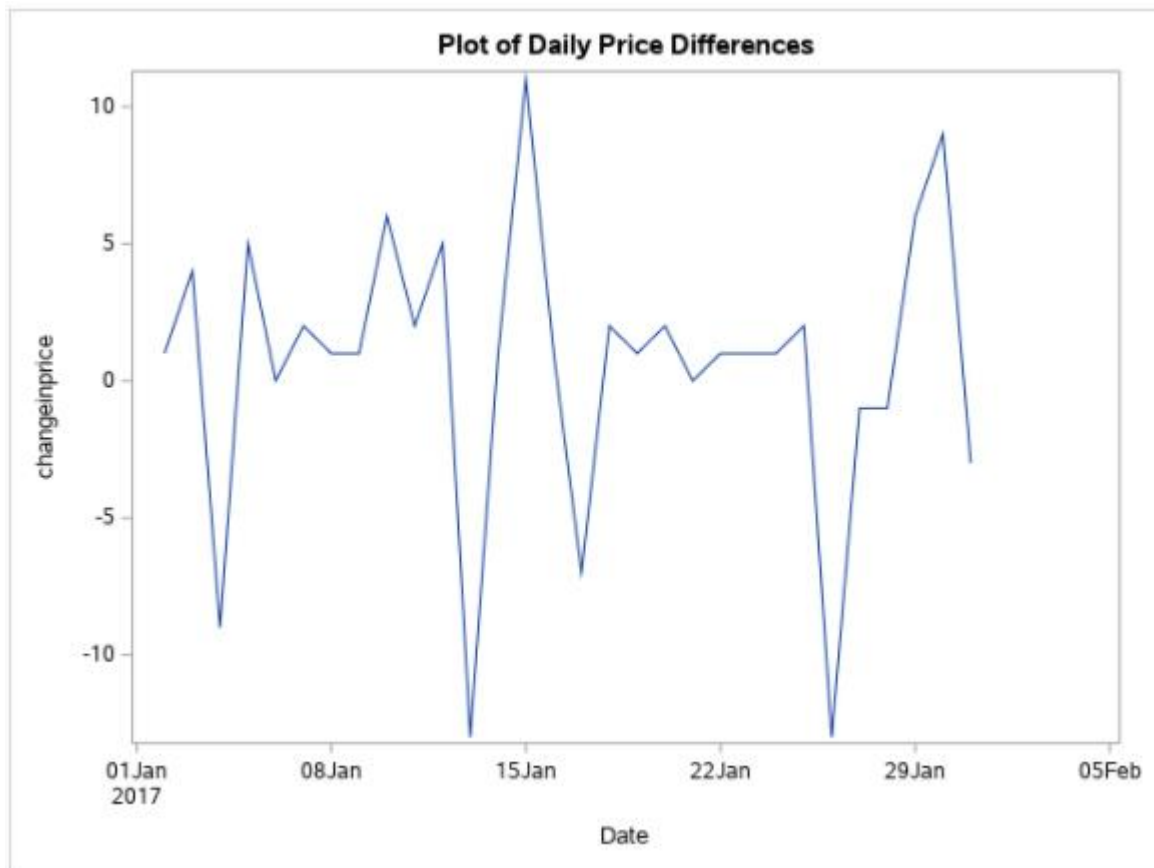
Result:

Obs	Age	Weight	SS	Zip	NumAge	NumWeight	CharSS	CharZip
1	23	155	132423222	8822	23	155	132-42-3222	08822
2	56	220	123457777	90210	56	220	123-45-7777	90210
3	74	95	12003004	78010	74	95	012-00-3004	78010

Problem 12:

Code:

```
data mystocks;
set learn.stocks;
changeinprice=dif(price);
title "Plot of Daily Price Differences";
proc sgplot data=mystocks;
series x=date y=changeinprice;
run;
```

Result:

Plot of Daily Price Differences
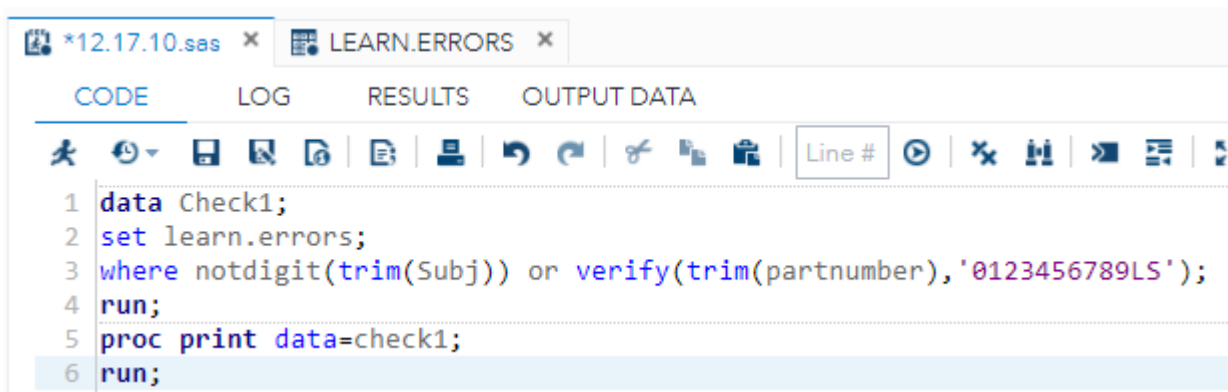

Section 12.17:

Problem 8:

Code:

```
data study;
set learn.study(keep=Weight rename=(Weight=Weight1));
Weight=input(compress(weight1,,'KD'),8.);
if find (Weight1,'KG','i')then weight=round(2.2*weight);
else if find(weight1,'LB','i') then Weight = round(Weight);
run;
proc print data= study; run;
```

Result:

Obs	Weight1	Weight
1	220lbs.	220
2	90Kg.	198
3	88kg	194
4	165lbs.	165
5	88kG	194

Problem 10:

Code:
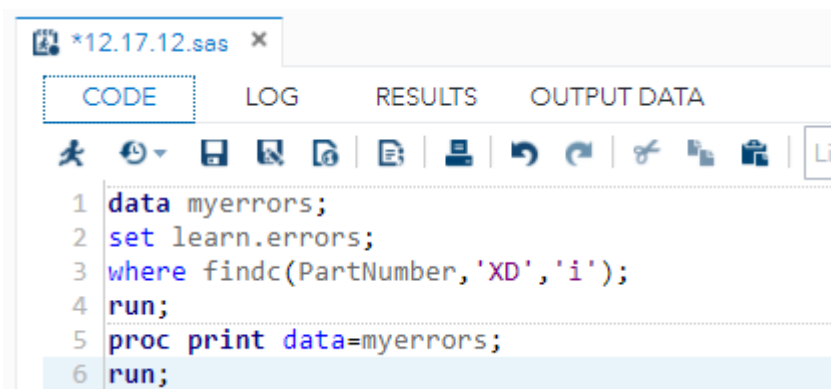
```
data Check1;
set learn.errors;
where notdigit(trim(Subj)) or verify(trim(partnumber),'0123456789LS');
run;
proc print data=check1;
run;
```

Result:

Obs	Subj	PartNumber	Name
1	0a2	L887X	Fred Beans
2	004	abcde	Mary Bumpers
3	X89	8888S	Gill Sandford

Problem 12:

Code:

```
data myerrors;
set learn.errors;
where findc(PartNumber,'XD','i');
run;
proc print data=myerrors;
run;
```

Result:

Obs	Subj	PartNumber	Name
1	0a2	L887X	Fred Beans
2	004	abcde	Mary Bumpers