**Name: Parth Das**

**Sap: 60004220185**

**Roll No: C-111**

**BA Experiment-2**

/\* Random function

Trim Function

Compress Function

input & put function

catx function

scan function

coalesce function

verify fun

substring function

\*/

data test;

input x y;

if \_error\_ =1 then do;

put "\*\*Error in row "\_n\_"\*\*";

end;

datalines;

1 1

2 2

3 n

4 4

;

run;

proc print data=test;

run;

/\* 1. Random function

Generates a random number between 0 and 1. \*/

data random\_example;

rand\_num = ranuni(0); /\* Generates a random number \*/

datalines;

1

2

3

;

run;

proc print data=random\_example;

run;



/\* 2. Trim Function (trim)

Removes trailing spaces from a character variable. \*/

data trim\_example;

name = "John Doe "; /\* Notice the extra spaces \*/

trimmed\_name = trim(name); /\* Removes the trailing spaces \*/

datalines;

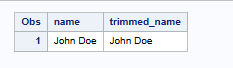
1

;

run;

proc print data=trim\_example;

run;



/\* 3. Compress Function (compress)

Removes specified characters from a string. \*/

data compress\_example;

phone = "(123) 456-7890";

compressed\_phone = compress(phone, '()-'); /\* Removes characters ( ) - \*/

datalines;

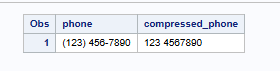
1

;

run;

proc print data=compress\_example;

run;



/\* 4. Input and Put Functions (input and put)

input is used to read data from a character variable into a numeric variable.

put is used to convert a numeric variable into a character variable. \*/

data input\_put\_example;

input\_str = '123.45';

num\_value = input(input\_str, best32.); /\* Converts string to numeric \*/

char\_value = put(num\_value, 8.2); /\* Converts numeric to string \*/

datalines;

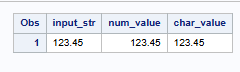
1

;

run;

proc print data=input\_put\_example;

run;



/\*5. Catx Function (catx)

Concatenates strings with a delimiter. \*/

data catx\_example;

first\_name = "John";

last\_name = "Doe";

full\_name = catx(" ", first\_name, last\_name); /\* Concatenates with a space \*/

datalines;

1

;

run;

proc print data=catx\_example;

run;



/\* 6. Scan Function (scan)

Extracts a word from a string. \*/

data scan\_example;

full\_name = "John Doe";

first\_name = scan(full\_name, 1); /\* Extracts the first word \*/

last\_name = scan(full\_name, 2); /\* Extracts the second word \*/

datalines;

1

;

run;

proc print data=scan\_example;

run;



/\* 7. Coalesce Function (coalesce)

Returns the first non-missing value in a list of variables. \*/

data coalesce;

input home cell;

numavilable=coalesce(home,cell);

datalines;

1542321

1532456

run;



proc print data=coalesce;

run;

/\* 8.Verify Function (verify)

Checks for the position of the first character that is not in a list of characters \*/

data verify\_example;

str = "abc123";

position = verify(str, '0123456789'); /\* Finds position of first numeric character \*/

datalines;

1

;

run;

proc print data=verify\_example;

run;



/\*9. Substring Function (substr)

Extracts a substring from a string. \*/

data substr\_example;

str = "Hello, World!";

sub\_str = substr(str, 1, 5); /\* Extracts the first 5 characters \*/

datalines;

1

;

run;

proc print data=substr\_example;

run;

