This chapter shows how BASIC-256 asks the user to enter strings and numbers, and how to use this in a program.

InputString – Getting Text From the User:

So far we have told the program everything it needs to know in the programming code. The next statement to introduce is *inputstring*. The *inputstring* statement captures a string that the user types into the text area and stores that value in a variable.

Let's take Program 22 and modify it so that it will ask you for a name and then say hello to that person.

```
# ilike.kbs
1
2
      # using input to ask for a name
3
4
      inputstring "enter your name>", name
     message1 = name + " is my friend."
5
6
     message2 = "I like " + name + "."
7
8
     print message1
9
      say messagel
     print message2
10
11
      say message2
```

Program 29: I Like fill in the blank

```
enter your name>Vance
Vance is my friend.
I like Vance.
```

Sample Output 29: I Like fill in the blank



```
inputstring "prompt", variable
inputstring variable
```

The **inputstring** statement will retrieve a string that the user types into the text output area of the screen. The result will be stored in a variable that may be used later in the program.

Concept A prompt message, if specified, will display on the text output area and the cursor will directly follow the prompt.

InputInteger and InputFloat – Getting Numbers

The "Math-wiz" program shows an example of input with numbers.

```
1
     # mathwiz.kbs
2
     # show several mathematical operations
3
4
     inputfloat "a? ", a
5
     inputfloat "b? ", b
6
7
     print a + "+" + b + "=" + (a+b)
8
     print a + "-" + b + "=" + (a-b)
9
     print b + "-" + a + "=" + (b-a)
10
     print a + "*" + b + "=" + (a*b)
11
     print a + "/" + b + "=" + (a/b)
12
     print b + "/" + a + "=" + (b/a)
```

Program 30: Math-wiz

```
a? 7.9
b? 6
7.9+6.0=13.9
```

7.9-6.0=1.9 6.0-7.9=-1.9 7.9*6.0=47.4 7.9/6.0=1.31666666667 6.0/7.9=0.759493670886

Sample Output 30: Math-wiz



Here is another example using **inputinteger** and **inputstring**.

```
1  # sayname.kbs
2
3  inputstring "What is your name?", name
4  inputinteger "How old are you?", age
5
```



Program 31: Fancy – Say Name

```
What is your name?Jo
How old are you?13
It is nice to meet you, Jo.
In 8 years you will be 21 years old. Wow,
that's old!
```

Sample Output 31: Fancy – Say Name

Input – Automatic Type Conversion

The last style of the input statement we will discuss is the plain *input*. This statement will ask the user for something and automatically convert it to either a string, integer or floating-point value. This may be the behavior you wish but may cause problems in other places





This chapter's "Big Program" is a silly story generator. Answer the questions with words and the computer will tell you a story.

```
# sillystory.kbs
1
2
     print "A Silly Story."
3
4
5
     inputstring "Enter a noun? ", noun1
     inputstring "Enter a verb? ", verb1
6
7
     inputstring "Enter a room in your house? ", room1
8
     inputstring "Enter a verb? ", verb2
9
     inputinteger "Enter an integer 2 or larger?", howmany
```

```
10
     inputstring "Enter a plural noun? ", noun2
11
     inputstring "Enter an adjective? ", adj1
12
     inputstring "Enter a verb? ", verb3
13
     inputstring "Enter a noun? ", noun3
14
     inputstring "Enter Your Name? ", name
15
16
     sentence = "A silly story, by " + name + "."
17
     print sentence
18
     say sentence
19
20
     sentence = "One day, not so long ago, I saw a " +
     noun1 + " " + verb1 + " down the stairs."
21
     print sentence
22
     say sentence
23
24
     sentence = "It was going to my " + room1 + " to " +
     verb2 + " " + string(howmany) + " " + noun2
25
     print sentence
26
     say sentence
27
28
     sentence = "The " + noun1 + " became " + adj1 + "
     when I " + verb3 + " a " + noun3 + "."
29
     print sentence
30
     say sentence
31
32
     sentence = "The End."
33
     print sentence
34
     say sentence
```

Program 32: Big Program - Silly Story Generator

```
A Silly Story.
Enter a noun? car
Enter a verb? drive
Enter a room in your house? bathroom
Enter a verb? walk
Enter an integer 2 or larger?5
Enter a plural noun? cows
```

```
Enter an adjective? big
Enter a verb? lifted
Enter a noun? hippo
Enter Your Name? Mary
A silly story, by Mary.
One day, not so long ago, I saw a car drive
down the stairs.
It was going to my bathroom to walk 5 cows
The car became big when I lifted a hippo.
The End.
```

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Sample Output 32: Big Program - Silly Story Generator

Exercises:

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Word	1	t <u>-</u>	р	n	t	f	У	h	а	g	u	i
Conroh	:	i s	; t	i	n	t	е	g	е	r	t	f
Search	1	n y	ΧZ	S	S	b	а	b	v	n	S	d
	1	t i	. n	р	u	t	f	1	0	а	t	0
	e	e <u>c</u>	, e	n	h	Х	W	0	а	а	r	d
	(g z	: f	р	r	0	m	р	t	b	i	Z
	e	e n	ιq	d	r	l	r	е	р	1	n	m
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	strina	utile		npe	1000	inię	,	nce	jci,	iiic		teger, prompt,
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ل کر	1. Write a program to ask for three names. Store them in string variables. Once the user enters the third name have the computer recite the classic playground song using the names:							
	[Name One] and [Name Two] sitting in a tree, K-I-S-S-I-N-G.							
Problems	First comes love, then comes marriage, then comes [Name Three] in a baby carriage!							
	2. Write a program to ask for an adjective, noun, animal, and a							

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sound. Once the use enters the last one, build a single string variable (using concatenation) to say a verse of Old MacDonald. Print the result out with a single statement and say it with a single statement. (Adapted from The Old Macdonald Mad Lib from http://www.madglibs.com) [Adjective] MacDonald had a [Noun], E-I-E-I-O and on that [Noun] he had an animal, E-I-E-I-O with a [Sound] [Sound] here and a [Sound] [Sound] there, here a [Sound] there, here a [Sound] there a [Sound], [Adjective] MacDonald had a [Noun], E-I-E-I-O.