2.2 PROGRAMMING TECHNIQUES CONTINUED

SUB PROGRAMS			RECORDS
<pre>Procedures are a set of instructions stored under a name so that you can call the procedure to run the whole set of instructions. A function is like a procedure but always returns a value. Parameters are variables used to pass values into a function or procedure.</pre>			Records are a data structure used to store a collection of data. They can store information of different data types. Field = each item in a record is a field. Each field has a name and data type.
A proced	ure with parameters	A procedure without parameters	Lach field has a hame and data type.
procedure intro (name)		procedure intro ()	A record can be created like this:
print("Hello " +name)		<pre>print("Hello")</pre>	record students int student_number
print("Welcome to the game")		print("Welcome to the game")	<pre>string student_name bool passed_test</pre>
endprocedure		endprocedure	endrecord
			Data can be assigned using variables:
	SQL (Structured	Query Language)	Student1=students(1,"Bob Jones", True)
SQL is th	SQL (Structured e language used to manage		
SQL is th Commands	• •		Student1=students(1,"Bob Jones", True) Student2=students(2,"Steve Smith", False)
	e language used to manage	and search databases.	Student1=students(1,"Bob Jones", True) Student2=students(2,"Steve Smith", False)
Commands	e language used to manage Example	and search databases.	<pre>Student1=students(1,"Bob Jones", True) Student2=students(2,"Steve Smith", False) Student3=students(3,"Sally Roberts", True)</pre>
Commands SELECT	e language used to manage Example SELECT name, age	and search databases. What it does Displays the name and age of everyone in the students table Displays the name of everyone in the	<pre>Student1=students(1,"Bob Jones", True) Student2=students(2,"Steve Smith", False) Student3=students(3,"Sally Roberts", True) The whole record can be accessed using the variable name:</pre>
Commands SELECT FROM	e language used to manage Example SELECT name, age FROM students	and search databases. What it does Displays the name and age of everyone in the students table	<pre>Student1=students(1,"Bob Jones", True) Student2=students(2,"Steve Smith", False) Student3=students(3,"Sally Roberts", True) The whole record can be accessed using the</pre>
Commands SELECT FROM	e language used to manage Example SELECT name, age FROM students SELECT name FROM students	and search databases. What it does Displays the name and age of everyone in the students table Displays the name of everyone in the	<pre>Student1=students(1,"Bob Jones", True) Student2=students(2,"Steve Smith", False) Student3=students(3,"Sally Roberts", True) The whole record can be accessed using the variable name: print(Student1)</pre>
Commands SELECT FROM WHERE	e language used to manage Example SELECT name, age FROM students SELECT name FROM students WHERE gender=male	<pre>and search databases. What it does Displays the name and age of everyone in the students table Displays the name of everyone in the students table who's gender is male</pre>	<pre>Student1=students(1,"Bob Jones", True) Student2=students(2,"Steve Smith", False) Student3=students(3,"Sally Roberts", True) The whole record can be accessed using the variable name:</pre>
Commands SELECT FROM WHERE	e language used to manage Example SELECT name, age FROM students SELECT name FROM students WHERE gender=male SELECT name FROM students	and search databases. What it does Displays the name and age of everyone in the students table Displays the name of everyone in the students table who's gender is male Displays the students' names that	<pre>Student1=students(1,"Bob Jones", True) Student2=students(2,"Steve Smith", False) Student3=students(3,"Sally Roberts", True) The whole record can be accessed using the variable name: print(Student1) (1, "Bob Jones", True)</pre>
Commands SELECT FROM WHERE LIKE	e language used to manage Example SELECT name, age FROM students SELECT name FROM students WHERE gender=male SELECT name FROM students WHERE name LIKE "% Smith"	<pre>and search databases. What it does Displays the name and age of everyone in the students table Displays the name of everyone in the students table who's gender is male Displays the students' names that end with Smith.</pre>	<pre>Student1=students(1,"Bob Jones", True) Student2=students(2,"Steve Smith", False) Student3=students(3,"Sally Roberts", True) The whole record can be accessed using the variable name: print(Student1)</pre>
Commands SELECT FROM WHERE LIKE	e language used to manage Example SELECT name, age FROM students SELECT name FROM students WHERE gender=male SELECT name FROM students WHERE name LIKE "% Smith" SELECT name FROM students	<pre>and search databases. What it does Displays the name and age of everyone in the students table Displays the name of everyone in the students table who's gender is male Displays the students' names that end with Smith. Displays the students who are male</pre>	<pre>Student1=students(1,"Bob Jones", True) Student2=students(2,"Steve Smith", False) Student3=students(3,"Sally Roberts", True) The whole record can be accessed using the variable name: print(Student1) (1, "Bob Jones", True)</pre>
Commands SELECT FROM WHERE LIKE	e language used to manage Example SELECT name, age FROM students SELECT name FROM students WHERE gender=male SELECT name FROM students WHERE name LIKE "% Smith" SELECT name FROM students WHERE gender=male AND	<pre>and search databases. What it does Displays the name and age of everyone in the students table Displays the name of everyone in the students table who's gender is male Displays the students' names that end with Smith. Displays the students who are male and have an attendance of more than</pre>	<pre>Student1=students(1,"Bob Jones", True) Student2=students(2,"Steve Smith", False) Student3=students(3,"Sally Roberts", True) The whole record can be accessed using the variable name: print(Student1) (1, "Bob Jones", True) or part of a record can be accessed:</pre>