

3055 BA SANGAM COLLEGE

PH: 6674003/9264117 E-mail: basangam@connect.com.fj



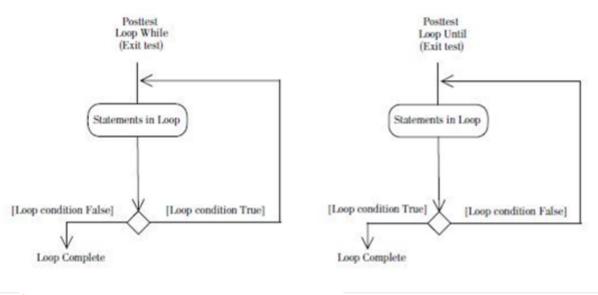
WORKSHEET 21

School: <u>Ba Sangam College</u>
Subject: Computer Studies
Year / Level: <u>12</u>
Name of Student:

Strand	Application Package
Sub strand	Visual Basic .Net Programming (VB.Net)
Content Learning Outcome	Analyse and construct programs using programming skills
	learnt from Visual Basic.Net

Posttest or exit test.

In a posttest loop, the loop condition gets evaluated at the end of the loop cycle. Therefore, the body of the loop will get executed at least once, regardless of the condition.



Post-test Do/Until Loop

Dim intNum AsInteger

intNum = 2 _intitialise starting value

Do

lblAnswer.Text = lblAnswer.Text &" "& intNum
intNum = intNum + 2 _increment by 2 for even numbers
LoopUntil (intNum > 20) _ Condition

Post-test Do/While Loop

Dim intNum AsInteger

intNum = 2 _intitialise starting value

Do

lblAnswer.Text = lblAnswer.Text &" "& intNum intNum = intNum + 2 __increment by 2 for even numbers LoopWhile (intNum <= 20) __Condition

Sub procedure – performs actions

Function procedure – performs actions and returns a value (the return value)

ByVal sends a copy of the argument's value to the procedure so that the procedure cannot alter the original value.

ByRef sends a reference indicating where the value is stored in memory, allowing the called procedure to actually change the argument's original value.

Procedure header for a function Header

Sangam Education Board - Online Resources

Access modifier Parameter Function name Parameter data type Return data type

Some careers in this field

Private Function Commission(ByVal SalesAmountDecimal As Decimal) As Decimal

Computer programmers

- Write, revise, test, debug, and maintain the programs that instruct computers how to carry out certain tasks.
- Programmers write these instructions in coding languages like Java or C++, which computers can then follow.
- The job of a programmer may involve a great deal of coding to very little coding in the case of some management positions

Software designers

- Create software for an organization or its external clients and customer
- They often see a project from inception to completion, taking into consideration the needs of clients or stakeholders
- Software designers assess the requirements of the software, and ensure that they are met
- They may or may not perform the actual coding for the project

Software developers

- * Research, design, develop, and test software and systems found in technologies ranging from automobiles, to gaming systems, to life saving medical equipment.
- A software developer can be involved in many different aspects of a project ranging from coding, to design, to project management

Security analysts

Activity

Draw a flowchart for the program segment given below. (10m)

- 10 Rem To Calculate Electricity Charge
- 20 Input "Enter Customer Name"; N\$
- 30 Input "Customer Postal Address"; A\$
- 40 Input "No. of units consumed"; U
- 50 If U = 33 then
- 60 Total_Charge = U * 0.50
- 70 Print N\$, A\$, U, Total Charge
- 80 Else If U > 33 then
- 90 Total Charge = (U- 33)* 0.75 + (33 * 0.50)

100 Print N\$, A\$, U, Total Charge

110 End

Sangam Education Board - Online Resources

Safeguard and protect an organization's technology and systems from intrusion or harm.

They monitor current systems, assess potential threats, and put measures in place to ensure that files are neither deliberately or accidentally changed, damaged, deleted or even stolen.

Web/internet engineers

- Develop web pages and interfaces for an organization's external or internal websites.
- Responsibilities may include building web sites, internet applications, social media networks, and e-commerce applications through code.
- They may also include configuring web servers and network security, server-side or client-side scripting, web design and content development.

Application developers

- Use programming languages and source code to create software that meets client requirements
- Developers may work with multiple programming languages and operating systems
- Application development involves the process, life cycle and creation of the software aimed at helping users complete a computer task or program
- Developers work closely with computer analysts and engineers in using languages such as Java, C++ or ORACLE to develop the necessary specifications for software
- Developers may also test, debug and improve generally faulty applications for clients

