



Code	Subject Title	Cr. Hrs	Semester
BBA-208	Visual Programming Concept	3	IV
Year	Discipline		
2	Business Administration		

The course aim is to introduce visual environment and concepts applicable in windows operating systems. Students will be able to develop fundamental programming skills using the object oriented approach.

Course Contents:

1. Key words, identifiers, variable, constants.
 2. Functions, procedures
 3. Arrays strings
 4. Abstractions, inheritance, polymorphism Program semantics
 5. Templates
-



UNIVERSITY OF THE PUNJAB

Fourth Semester 2015
Examination: B.S. 4 Years Programme

Roll No.

PAPER: Visual Programming Concept
Course Code: BBA-208 /

TIME ALLOWED: 2 hrs. & 30 mins.
MAX. MARKS: 50

Attempt this Paper on Separate Answer Sheet provided.

SUBJECTIVE TYPE

Q 2: Answers the following short questions:

(10 x 02 = 20)

1. Difference between source code and object code?
2. Difference between procedural and non-procedural languages?
3. Difference between compiler and interpreter?
4. Write an algorithm to input two numbers calculate sum then display the result on screen?
5. Write a program that store two values in two integer variables, perform all arithmetic operations on them and display the results?
6. What is assignment operator?
7. Difference between if-Else and Select-Case statement?
8. What is infinite Loop?
9. Name two types of Subprograms?
10. Write general syntax for Procedure call and Function call

Q 3: Long Question:

(10 x 03 = 30)

1. (a) Write a program that gets three integers from the user and displays the minimum number? (5)
(b) Write a program that inputs a number from the user in textbox and displays Factorial of that number using Do-While Loop in another textbox? (5)
2. (a) What are the rules for naming variables? (5)
(b) Write an algorithm to find the sum of first fifty numbers? (5)
3. Write the program that should accept obtained marks in an examination it should then calculate the percentage and assign a grade to a student. Display marks in each subject, total percentage and grade. A criterion is given below (Take 5 subjects) (10)

Percentage	Grade
≥ 80	A1
≥ 70 but < 80	A
≥ 60 but < 70	B
≥ 50 but < 60	C
≥ 40 but < 50	D
< 40	F



UNIVERSITY OF THE PUNJAB

Roll No.

Fourth Semester 2015
Examination: B.S. 4 Years Programme

PAPER: Visual Programming Concept
Course Code: BBA-208 /

TIME ALLOWED: 30 mins.
MAX. MARKS: 10

Attempt this Paper on this Question Sheet only.

OBJECTIVE TYPE

Q 1: Each question has four possible answers. Choose the correct answer and encircle it. Over-writing, Cutting, Erasing, Using of lead pencil will result in loss of marks. (10)

(i) A programming language used for mathematical and engineering applications was:

- (a) Basic (B) Fortran (C) Cobol (D) Assembly

(ii) Java is a product of:

- (a) Microsoft (B) IBM (C) Sun System (D) Hewlett

(iii) An expression consists of:

- (a) Operators (b) Operands (c) Both a and b (d) None

(iv) All of the following are valid expressions except:

- (a) Sales-expenses (b) $\text{Pi} * \text{Radius}$ (c) M / n (d) A, B

(v) The process of carefully observing the working of an algorithm is called:

- (a) Desk Checking (b) Compiling (c) Debugging (d) Coding

(vi) Which of the following is used to terminate a loop from within the loop?

- (a) End Loop (b) Exit Loop (c) Exit Do (d) Exit While

(vii) If STEP keyword is not used in For...Next Loop, counter variable is incremented by:

- (a) 1 (b) 0 (c) 10 (d) unknown

(viii) Each element of array has its own:

- (a) Array (b) Upper bound (c) Index (d) All

(ix) What is the representation of the third element in array called N:

- (a) N(2) (b) N(3) (c) N(1) (d) N(4)

(x) Which of the following is not an example of a mathematical function in visual basic:

- a) Round (b) sqr (c) len (d) exp



UNIVERSITY OF THE PUNJAB

Roll No.

Fourth Semester - 2017

Examination: B.S. 4 Years Programme

PAPER: Visual Programming Concept
Course Code: BBA-208 / BUS-22350

TIME ALLOWED: 30 mins.
MAX. MARKS: 10

Attempt this Paper on this Question Sheet only.

Section I: Objective

Marks: 10

Q1. Chose at least one correct answer

1. Which of the following is not an example of a program bug
 - a. Run-time error
 - b. Syntax error
 - c. Operator error
 - d. Logic error
2. Which of the following is the native language of computer
 - a. C language
 - b. Machine language
 - c. Pascal
 - d. DOS
3. The application name always appears in the
 - a. Properties window
 - b. Code window
 - c. Intermediate window
 - d. Title bar
4. A predefined screen that can be used as one of the building blocks of an application is
 - a. Program
 - b. Property
 - c. Method
 - d. Control
5. _____ property is used to display text when you keep your mouse cursor on that control
 - a. Enabled
 - b. Text
 - c. ToolTip Text
 - d. Mouse pointer
6. Visual basic was developed by _____
 - a. Prof Bell
 - b. Prof John Kemmeny and Thmoas Kurtz
 - c. Prof Howard Bell
 - d. Both b and c.
7. A long type integer takes _____ bytes in memory
 - a. 4
 - b. 3
 - c. 5
 - d. 8
8. AND is a _____ operator
 - a. Logical
 - b. Relational
 - c. Arithmetic
 - d. None of the above
9. Wend is the last statement of _____ structure
 - a. While
 - b. Until
 - c. Go to
 - d. For
10. The _____ loop is also called a counter loop
 - a. For ...next
 - b. While.....wend
 - c. Until....loop
 - d. All of the above



UNIVERSITY OF THE PUNJAB

Fourth Semester - 2017
Examination: B.S. 4 Years Programme

Roll No.

PAPER: Visual Programming Concept
Course Code: BBA-208 / BUS-22350

TIME ALLOWED: 2 hrs. & 30 mins.
MAX. MARKS: 50

Attempt this Paper on Separate Answer Sheet provided.

Section II: Subjective

Marks: 50

Q2. Give brief answers to the following questions (Short Questions)

Marks: (10*2=20)

1. Differentiate between source code and object code.
2. Differentiate between procedural and non-procedural languages.
3. Differentiate between compiler and interpreter.
4. Explain explicit and implicit declaration?
5. What is built_ in functions?
6. Explain the purpose of relational operators and logical operators?
7. What the Difference is between if-Else and Select-Case statement?
8. What is assignment operators?
9. What are Methods of Form?
10. Explain two types of Subprograms.

Q3. Give detail answers to the following questions (Long Questions)

Marks: 30

1. Write a program that takes a number from user as an input in a textbox and display the Factorial of the number using Do-While Loop in another textbox. (10)
2. Write a program that accept obtained marks of five subjects of a student in an examination. Then calculate the percentage and assign grade to a student. Display marks of each subject, total percentage and grade. Grading Criterion is given below (10)

Percentage	Grade
≥ 80	A+
≥ 70 but < 80	A
≥ 60 but < 70	B
≥ 50 but < 60	C
≥ 40 but < 50	D
< 40	F

3. (a) What are the rules for naming variables? (5)
(b) Write an algorithm to find the sum of first fifty numbers? (5)



UNIVERSITY OF THE PUNJAB

Fourth Semester - 2018

Examination: B.S. 4 Years Programme

Roll No.

PAPER: Visual Programming Concept

TIME ALLOWED: 15 Mints.

Course Code: BBA-208 / BUS-22350 Part – I (Compulsory)

MAX. MARKS: 10

Attempt this Paper on this Question Sheet only.

Please encircle the correct option. Each MCQ carries 1 Mark. This Paper will be collected back after expiry of time limit mentioned above.

Q1. Chose at least one correct answer

Marks: 10

1. Which of the following is an example of Program error
 - A. System Error
 - B. Systex Error
 - C. Logical Error
 - D. DB Error
2. The sub code used in Assembly Language to perform arithmetic operations is called
 - A. Code
 - B. Mnemonics
 - B. Object Code
 - D. Machine Language
3. A set of instructions for computer to follow is called
 - A. Program
 - B. Language
 - B. Machine Code
 - D. Software
4. Debug window is same as _____ window
 - A. System Window
 - B. Properties Window
 - C. Code Window
 - D. Title Bar
5. A _____ is something which value do not change during the execution of program
 - A. Label
 - B. Variable
 - B. Function
 - D. All of the above
6. An array can store _____ Value
 - A. Single
 - B. Multiple
 - B. None
 - D. All of the above
7. NOR is a _____ operator
 - A. System
 - B. Logical
 - B. Relational
 - D. None of the above
8. _____ read and execute the whole program at once
 - A. System
 - B. Program
 - B. Compiler
 - D. Interpreter
9. _____ loop is al called a counter loop
 - A. While
 - B. Until
 - B. GoTO
 - D. For
10. The Logical Structure of IF Statement in VB is
 - A. IF
 - B. IF THEN ELSE
 - B. IF ELSE
 - D. IF THEN ELSE END IF



UNIVERSITY OF THE PUNJAB

Fourth Semester - 2018

Examination: B.S. 4 Years Programme

Roll No.

PAPER: Visual Programming Concept

TIME ALLOWED: 2 Hrs. & 45 Mints.

Course Code: BBA-208 / BUS-22350 Part – II

MAX. MARKS: 50

Attempt this Paper on Separate Answer Sheet provided.

Q2. Give brief answers to the following questions (Short Questions). Marks: (10*2=20)

1. Differentiate between source code and machine code.
2. Differentiate between compiler and interpreter.
3. Explain what is meant by scope of variable
4. What is a user defined function?
5. What is the usage of wild cards in programming?
6. What is the use of loop in programming?
7. What is the difference between if-else and Select Case statement?
8. What is a Label in programming?
9. What are the various types of sub programs?
10. What is the use of arrays in programming?

Q3. Give detail answers to the following questions (Long Questions) Marks: 10x3=30

1. Write a program that takes a number from user as an input in textbox and display weather that number is even number or odd number.
2. What are variables and its types explain?
3. Write a program that accept obtained marks of four subjects of a student in an examination, then calculate the percentage and assign grade to a student. Display marks of each subject, total percentage and grade. Grading criterion is given below

Percentage	Grade
≥ 90	A*
≥ 85	A
≥ 75	B*
≥ 65	B
≥ 55	C
≥ 45	D
< 45	Fail



UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Fourth Semester – 2019

Paper: Visual Programming Concept

Course Code: BBA-208 / BUS-22350 Part – I (Compulsory) Time: 15 Min. Marks: 10

Roll No. in Fig.

Roll No. in Words.

Signature of Supdt.:

ATTEMPT THIS PAPER ON THIS QUESTION SHEET ONLY.

Division of marks is given in front of each question.

This Paper will be collected back after expiry of time limit mentioned above.

Q.1. Encircle the right answer cutting and overwriting is not allowed. (10x1=10)

1. Visual basic was developed by _____
 - A) Prof. Bell
 - B) Prof. John Kemmeny and Thomas Kurtz
 - C) Prof. Howard Bell
 - D) Both b and c
2. A Order data for baseball tickets and bar code data are examples of
 - A) raw input.
 - B) raw output.
 - C) customer and product data.
 - D) sales information.
3. When does Exceptions arises in code sequence?
 - A) Run Time
 - B) Compilation Time
 - C) Can Occur Any Time
 - D) None of the mentioned
4. What is function overloading?
 - A) Methods with same name but different parameters.
 - B) Methods with same name but different return types.
 - C) Methods with same name, same parameter types but different parameter names.
 - D) None of the above.
5. How many classes can be defined in a single program?
 - A) Only 1
 - B) Only 100
 - C) Only 999
 - D) None of above
6. Which concept of OOP is false for C++?
 - A) Code can be written without using classes
 - B) Code must contain at least one class
 - C) A class must have member functions
 - D) At least one object should be declared in code

P.T.O.

7. How does the computer store the letter e.g. 's'?
- A) In binary format
 - B) In ASCII representation
 - C) The letter is mapped onto some number and this number is stored
 - D) All of the above
8. What is the value stored in the integer variable intVar?

```
int intVar = 24.2 / 2;
```

- A) 12
 - B) 12.1
 - C) 13
 - D) 24
 - E) None of the above
9. How many times is the body of the loop executed?

```
int i=1;
while(true) {
    cout << i;
    if(i==5)
        break;
    i++; }
```

- A) Forever
- B) 5 times
- C) 6 times
- D) 0 times
- E) None of the above

10. What does the following piece of code print?

```
for(int i=0;i<3;i++) {
    for(int j=5;j<7;j++) {
        cout << '*';
    }
    cout << endl; }
```

- | | | | |
|----|-------|----|-----|
| a. | ** | c. | *** |
| | ** | | *** |
| | ** | d. | * |
| b. | ***** | | ** |



UNIVERSITY OF THE PUNJAB
B.S. 4 Years Program / Fourth Semester – 2019

Roll No.

Paper: Visual Programming Concept
Course Code: BBA-208 / BUS-22350 Part – II

Time: 2 Hrs. 45 Min. Marks: 50

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

Q2. Give brief answers to the following questions (Short Questions). Marks: (10*2=20)

1. Define instance in object-oriented programming.
2. Define destructor.
3. What is abstraction and its benefits.
4. What is exception handling?
5. What are the access modifiers?
6. What is early and late Binding?
7. What is the difference between structure and a class?
8. What is the use of constant variables?
9. Define nested if statement and also give an example.
10. Define function and its benefits.

Q3. Give detail answers to the following questions (Long Questions) Marks: 30

1. State the important features of Object-Oriented Programming. Compare Object-Oriented programming with Procedure-Oriented programming.
2. difference between abstraction and encapsulation with detail example in your word.
3. Write an algorithm to print table from 2 to 10.

Eg. 2 X 1 = 2
 2 X 2 = 4
 : : :
 3 X 1 = 3
 3 X 2 = 6
 : : :

ATTEMPT THIS PAPER ON THIS QUESTION SHEET ONLY.

Division of marks is given in front of each question.

This Paper will be collected back after expiry of time limit mentioned above.

Signature of Supdt.:

Q.1. Encircle the right answer cutting and overwriting is not allowed. (10x1=10)

- Variables are named storage locations in memory, the value of which does not change during program _____.
 - Design
 - Execution
 - Debug
 - Modification
- All the controls in an array will have the same _____.
 - Value
 - Properties
 - Address
 - Location
- The _____ property in Visual basic is common for many a tool
 - Location
 - Place
 - Window status
 - Name
- Option button can be grouped in a _____ control
 - Label
 - Text box
 - Frame
 - Check box.
- A _____ bar appears in the top of the screen.
 - Title
 - Menu
 - Tool
 - Debug
- IDE stands for.....
 - Internet Development Environment
 - Integrated Dual Environment
 - Integrated Development Environment
 - Integrated Desktop Environment
- arrays can be resized at anytime
 - Dynamic
 - Fixed
 - Multidimensional
 - Control array
- All the following statements are true about variable scope except
 - Module
 - Global
 - Static
 - Local
- NAND is _____ operator
 - System
 - Logical
 - Relational
 - No of the above
- _____ read and convert code line by line
 - System
 - Program
 - Compiler
 - Interpreter



ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

Q2. Give short answers to the following questions. (10x2=20)

1. Difference between keyword and identifier
2. Describe the benefits of array with help of example code.
3. Difference between global and local variable.
4. How can we take decision in programming?
5. Define nested for loop with example.
6. Difference between function and procedure
7. Define constant variable and its usage.
8. What is polymorphism
9. Differentiate between DO-While and for loop.
10. Define inheritance and explain with real world example.

Q3. Give answers to the following questions. (3x10=30)

1. Write a program that takes two numbers from the user as an input, and then demonstrates the working of a calculator?
Hint: Calculator working is like addition, multiplication, subtraction of two numbers
2. Define inheritance and explain with real world example.
3. Write an algorithm to find the products of first 15 numbers.



UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Fourth Semester – Spring 2022

Paper: Visual Programming Concept

Course Code: BBA-208

Roll No.

Time: 3 Hrs. Marks: 60

THE ANSWERS MUST BE ATTEMPTED ON THE ANSWER SHEET PROVIDED

Q.1. Answer the following short questions.

(6x5=30)

- A. What is a source code?
- B. What do you mean by a logical error?
- C. What is the purpose of Interpreter?
- D. Which loop should you use when you know the number of required iterations and why?
- E. What are global variables?
- F. What is polymorphism?

Q.2. Answer the following questions

(3x10=30)

- A. Write a program that takes two numbers from user as an input and display their sum, difference, product, quotient, and average.
- B. Write a program that takes three numbers from user as an input and display them in their ascending order.
- C. Write a program that lets the user enter 100 integers into an array and display all the even numbers exist in the inputted array.