Χ



reviewer4@nptel.iitm.ac.in >

NPTEL (https://swayam.gov.in/explorer?ncCode=NPTEL) » An Introduction To Programming Through C++

(course)

Announcements (announcements) About the Course (https://swayam.gov.in/nd1_noc20_cs53/preview)

Ask a Question (forum) Progress (student/home) Mentor (student/mentor)

Unit 4 - Week 2

Course outline	Week 2 - Assignment 2	
How does an NPTEL online course work?	The due date for submitting this assignment has passed. Due on 2020-02-1 As per our records you have not submitted this assignment.	2, 23:59 IST.
Week 0	1) For each of the following mention whether it is a valid identifier	1 point
Week 1	x	
Week 2		
Lecture 3 Part 1 : Basic Elements of Program (unit? unit=27&lesson=37)	x3 3x No, the answer is incorrect. Score: 0	
Lecture 3 Part 2 : Basic Elements of Program (unit? unit=27&lesson=38)	Accepted Answers: _X x3	
Lecture 3 Part 3 : Basic Elements of	2) To print a message "What is your name?" the proper command iscout >> "What is your name?";cout >> 'What is your name?';	1 point
Program (unit? unit=27&lesson=39)	cout << "What is your name?";	
Lecture 3 Part 4 : Basic Elements of	Cout << 'What is your name?'; No, the answer is incorrect. Score: 0	
	Accepted Answers:	

Program (unit? unit=27&lesson=40)	cout << "What is your name?";	
Lecture 4 Part 1 : Program Design (unit? unit=27&lesson=42)	What will be printed because of the following code int x=5; double xx=5;	
Lecture 4 Part 2 : Program Design (unit? unit=27&lesson=41)	cout << 1/2*x << endl; // OUTPUT1 cout << 1/2*xx << endl; // OUTPUT2 cout << x/2 << endl; // OUTPUT3 cout << xx/2 << endl; // OUTPUT4	
Lecture 4 Part 3: ProgramDesign (unit?unit=27&lesson=43)	3) What is OUTPUT1?	
Lecture 5 : Simple cpp Graphics (unit? unit=27&lesson=44)	No, the answer is incorrect. Score: 0 Accepted Answers: (Type: Numeric) 0	
Quiz : Week 2 - Assignment 2 (assessment? name=166)	4) What is OUTPUT2?	1 point
Week 2 Programming Assignments 1 (/noc20_cs53/progassigname=168)	No, the answer is incorrect. Score: 0 Accepted Answers: gnmen(Type: Numeric) 0	4 maint
Week 2ProgrammingAssignment 2(/noc20_cs53/progassig	5) What is OUTPUT3?	1 point
name=169)	No, the answer is incorrect.	
DownloadVideos (unit?unit=27&lesson=178)	Score: 0 Accepted Answers: (Type: Numeric) 2	
Weekly Feedback (unit? unit=27&lesson=190)	6) What is OUTPUT4?	1 point
Week 3		
Week 4	No, the answer is incorrect. Score: 0	
Week 5	Accepted Answers: (Type: Numeric) 2.5	
Week 6		1 point
Week 7	7) What is printed because of the following code?	
Week 8	int x = 2; repeat(4){ x = x*x; }	
Week 9	cout << x << endl;	
Week 10		

2/07/2020	All introduction to Programming Phrought C++ Onit 4 - Week 2		
Week 11	No, the answer is incorrect. Score: 0		
Week 12	Accepted Answers: (Type: Numeric) 65536		
	1 poin		
Text Transcripts	8) Based on the previous exercise, how many multiplication operations will be enough for calculating 3^8, i.e. 3 to the power 8?		
	No, the answer is incorrect. Score: 0		
	Accepted Answers: (Type: Numeric) 3		
	1 poin		
	9) What will be printed by the following code?		
	<pre>1 int x=4; 2 repeat(4){ x = 2 * x + 3; } 3 cout << x << endl;</pre>		
	No, the answer is incorrect. Score: 0 Accepted Answers:		
	(Type: Numeric) 109 1 poin		
	The code below, with the proper initialization of x, y, is supposed to print the sequence 5, 9, 17, 33, 65.		
	int x = _, y = _; repeat(5){		
	cout << x << endl; x = 2*x + y; }		
	10)What should x be initialized to?		
	No, the answer is incorrect. Score: 0		
	Accepted Answers: (Type: Numeric) 5		
	1 poin		
	11)What should y be initialized to?		

 $https://online courses.nptel.ac.in/noc20_cs53/unit?unit=27\&assessment=166$

No, the answer is incorrect. Score: 0

Accepted Answers: (Type: Numeric) -1

```
1 point
The next few questions are for the program given below. The program is expected to compute the
value of the mathematical constant 'e'. You are to fill in the blanks as per the plan given in the
comments
main_program{
     int n; cin >> n;
     double i= BlankA, term = BlankB, result = BlankC;
     repeat(n){// On t-th entry, t=1..n
       // i=t-1, term=1/t!
       // result =1/0!+..+1/(t-1)!
       BlankD
 cout << result << endl;
12)What is BlankA?
 No, the answer is incorrect.
 Score: 0
 Accepted Answers:
 (Type: Numeric) 0
                                                                                                   1 point
13)What is BlankB?
 No, the answer is incorrect.
 Score: 0
 Accepted Answers:
 (Type: Numeric) 1
                                                                                                   1 point
14)What is BlankC?
 No, the answer is incorrect.
 Score: 0
 Accepted Answers:
 (Type: Numeric) 1
                                                                                                   1 point
15)Which of the following will be correct in BlankD?
                                                                                                 0 points
   i = i + 1;
   term = term / (i+1);
   result = result + term;
   result = result + term;
   i = i + 1;
   term = term / (i+1);
   i = i + 1;
```

```
result = result + term;
   term = term / (i+1);
   term = term / (i+1);
   result = result + term;
   i = i + 1;
 No, the answer is incorrect.
 Score: 0
 Accepted Answers:
 result = result + term;
 i = i + 1:
 term = term / (i+1);
Consider the code below for calculating the value of e. It solves the same problem as discussed in the
lecture but it does it differently. In the ith iteration it calculates the value of 1/i! and adds it to the result
main program{
 int n; cin >> n;
 double result = 0;
 int i=Blank-X;
 repeat(n){
  // calculate 1/i!
  int t=1;
  double term = 1;
  repeat(i){
   term = term/t;
   t = t + 1;
  result = result + term;
  i = i + 1:
 cout << result << endl;
}
16)What should i be initialized to (Blank-X)?
 No, the answer is incorrect.
 Score: 0
 Accepted Answers:
 (Type: Numeric) 0
                                                                                                     1 point
17)How many division operations does the above code do for n=10?
 No, the answer is incorrect.
 Score: 0
 Accepted Answers:
 (Type: Numeric) 45
                                                                                                     1 point
18)How many division operations did the code discussed in the lecture do for n=10?
```

No, the answer is incorrect. Score: 0	
Accepted Answers: (Type: Numeric) 10	
(Type: Numeric) To	1 point
	ι ροπι
19)Give the statement which would enable you to create a rectangle having corners (10,30), (50, (10,80), (50,80). The rectangle should be given the name "r1".	30),
No, the answer is incorrect. Score: 0	
Accepted Answers: (Type: String) Rectangle r1(30,55,40,50);	
(Type: Suring) Nectangle 11(30,33,40,30),	1 maint
	1 point
20)Give the command that would rotate the above rectangle right by 5 degrees about its center.	
No, the answer is incorrect. Score: 0	
Accepted Answers:	
(Type: String) r1.right(5);	
(Type: String) r1.rotate(5*3.14/180);	
	1 point
Fill in the blanks in the following code which is intended for drawing	
Fill in the blanks in the following code which is intended for drawing 5 circles of radius 50 pixels centered at points (100,100), (150,100),	
(200,100), (250,100), (300,100).	
initCanvas();	
double x=100;	
repeat(5){	
Circle c(x,BLANK-P,BLANK-Q);	
c.imprint();	
x = x + BLANK-R;	
}	
21)What is BLANK-P?	
Use as few spaces as possible	
No, the answer is incorrect. Score: 0	
Accepted Answers:	
(Type: Numeric) 100	
	1 point
22)What is BLANK-Q?	
No, the answer is incorrect. Score: 0	

Accepted Answers: (Type: Numeric) 50	
	1 point
23)What is BLANK-R?	
No, the answer is incorrect. Score: 0	
Accepted Answers:	
(Type: Numeric) 50	
	1 point