



NPTEL

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[Courses](#) » [The Joy of Computing using Python](#)[Announcements](#)[Course](#)[Ask a Question](#)[Progress](#)[FAQ](#)[JOCWiki](#)

# Unit 3 - Week 1: Introduction

## Course outline

[How to access the portal](#)[Pre-requisite assignment](#)

### Week 1: Introduction

- Introduction to Programming
- Why Programming?
- Programming for Everybody
- Any Prerequisites?
- Where to start?
- Why do we have so many languages?
- How to go about programming?
- Why to learn programming?
- What is programming?
- How to give instructions?
- Introduction to Scratch
- Introduction to Loops
- More about Loops
- Solution to Looping Problem

## Assignment 1

The due date for submitting this assignment has passed. **Due on 2018-08-15, 23:59 IST.**  
**Score: 9/10=90%**

**Assignment submitted on 2018-08-08, 23:04 IST**

1) 1 point

What should be the value of **t** so that the sprite shall complete one full rotation?

- ☐ 3  
☐ 6  
☐ 9  
☒ 12

**Yes, the answer is correct.**

**Score: 1**

**Accepted Answers:**

12

2) Which of the following can be used to communicate across multiple sprites? 1 point

- ☒ broadcast messages  
☐ wait option  
☐ sounds options  
☐ join operator

**Yes, the answer is correct.**

**Score: 1**

**Accepted Answers:**

*broadcast messages*

3) 1 point

Which of the following can never be an output of the above statement?

- ☐ 3  
☐ 6  
☐ 9  
☒ 12

**Yes, the answer is correct.**

**Score: 1**

**Accepted Answers:**

- Scratch : Animation 1
- Scratch : Animation 2
- Scratch : Animation 3
- More on Scratch
- Quiz : Assignment 1
- Week 1 Feedback

**Week 2: Introduction to Python****Week 3: Cool Ideas (Part 1)****Week 4: Cool Ideas (Part 2)****Week 5: Cool Ideas (Part 3)****Week 6: Cool Ideas (Part 4)****Week 7: Cool Ideas(Part 5)****Week 8: Cool Ideas(Part 6)****Week 9: Cool Ideas(Part 7)****Week 10: Cool Ideas(Part 8)****Week 11****Week 12****DOWNLOAD VIDEOS**

12

4) Which of the following options was used to make the sprite disappear from the animation stage? **1 point**

- ☐ disappear
- ☐ vanish
- ☒ hide
- ☐ show

**Yes, the answer is correct.**

**Score: 1**

**Accepted Answers:**

*hide*

5) Which of the following is a facility provided by Scratch to use sound effects? **1 point**

- ☐ A sound library is provided
- ☐ We can record sound using a microphone
- ☐ We can use a sound file
- ☒ All of the above

**Yes, the answer is correct.**

**Score: 1**

**Accepted Answers:**

*All of the above*

6) In addition to an option of using the inbuilt sprite library in Scratch, what are the other way(s) to use a sprite? **1 point**

- ☐ You can paint a custom sprite
- ☐ Upload an image file from your computer
- ☐ You can use camera to take pictures
- ☒ All the above

**Yes, the answer is correct.**

**Score: 1**

**Accepted Answers:**

*All the above*

7) Given first name and last name of a person, which of the following operators in Scratch can be used to obtain the full name? **1 point**

- ☐ merge
- ☒ join
- ☐ combine
- ☐ concatenate

**Yes, the answer is correct.**

**Score: 1**

**Accepted Answers:**

*join*

8) Which of the following commands would make the sprite move backwards? **1 point**

- ☐ Move 10 steps
- ☒ Move -10 steps
- ☐ Both (a) and (b)
- ☐ Neither (a) nor (b)

**Yes, the answer is correct.**

**Score: 1**

**Accepted Answers:**



*Move -10 steps*

9) Which of the following constructs carries out a set of instructions as long as any key in the keyboard is pressed? **1 point**

- ☐
- ☒
- ☐
- ☐ None of the above

**No, the answer is incorrect.**

**Score: 0**

**Accepted Answers:**

10) Which of the following Scratch constructs are used to keep doing a set of instructions infinitely? **1 point**

- ☐ continue
- ☐ always
- ☒ forever
- ☐ do

**Yes, the answer is correct.**

**Score: 1**

**Accepted Answers:**

*forever*



Previous Page

End

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