# Coding Basics (Variables)

| Code | Output |
|---|---|
| X=10<br>Y=4<br>Z=3.5<br>W="Hello" | |

# Coding Basics (Strings)

| Code | Output |
|---|---|
| X="Hello"<br>Y='hi'<br>Z='A' | |

# Coding Basics (Comments)

| Code | Output |
|---|---|
| #This program was developed by …<br>#This code is used to …<br>#I have something missing here | |

| Code | Output |
|---|---|
| Write "A"<br>#Write "B"<br>#Write "C"<br>Write "D" | Will print:<br>A<br>D |

# Coding Basics (write)

| Code | Output |
|---|---|
| x=3<br>write x<br>write 'x='<br>write 'x=' + x | Will print:<br>3<br>x=<br>x=3 |

# Coding Basics (If statement)

| Code | Output |
|---|---|
| x=10<br>if x>5<br>   write "Yes greater"<br>else<br>   write "No is not greater" | Will print **Yes**. |

| Code | Output |
|---|---|
| x=3<br>if x>5<br>   write "Yes"<br>else<br>   write "No" | Will print **No**. |

| Code | Output |
|---|---|
| x=7<br>if x>5<br>   write "Yes greater" | Will print **Yes greater**. |

| Code | Output |
|---|---|
| x=2<br>if x>5<br>   write "Yes greater" | Will print nothing of the screen. |

| Code | Code | Code | Code |
|---|---|---|---|
| x=25<br>if x>20<br>  write 'A'<br>else if x<5    A<br>  write 'B'<br>else if x>11<br>  write 'C'<br>else<br>  write 'D' | x=4<br>if x>20<br>  write 'A'<br>else if x<5    B<br>  write 'B'<br>else if x>11<br>  write 'C'<br>else<br>  write 'D' | x=15<br>if x>20<br>  write 'A'<br>else if x<5    C<br>  write 'B'<br>else if x>11<br>  write 'C'<br>else<br>  write 'D' | x=11<br>if x>20<br>  write 'A'<br>else if x<5    D<br>  write 'B'<br>else if x>11<br>  write 'C'<br>else<br>  write 'D' |

# Coding Basics (Loops)

| Code | Output |
|---|---|
| for x in [1..10]<br>    write "Hi" | Will print **Hi** ten times. |

| Code | Output |
|---|---|
| for x in [1..10]<br>    write x | Will print the numbers from 1 to 10. |

| Code | Output |
|---|---|
| for x in [2..10] by 2<br>    write x | Will print the odd numbers 2 4 6 8 10. |

| Code | Output |
|---|---|
| s=0<br>for x in [1..10]<br>    s = s + x<br>write s | Will print the sum from 1 to 10 which is 55. |

| Code | Output |
|---|---|
| s=0<br>for x in [1..10]<br>    if x>8<br>        s=s+x<br>write 's=' + s | 19 |

| Code | Output |
|---|---|
| s=0<br>for x in [1..10]<br>    if (x/2)==round(x/2)<br>        s=s+x<br>write 's = ' + s | 30 |