**Lab04 Part A**

1.

/\*

lab04 part A

abdul.c: outputs My name is "Abdullah Alshubaili

Oct 29, 2015: created by Abdullah Alshubaili

\*/

#include <stdio.h>

int main (int argc, char\* argv[])

{

printf("My name is Abdullah Alshubaili\n");

return 0;

} // main

2. gcc abdul.c -o abdul

3. ./abdul

4. My name is Abdullah Alshubaili

**Part B**

**source code**

/\*

count.c: counts from 10 to 0

Oct 29, 2015: created by Abdullah Aslhubaili

\*/

#include <stdio.h>

int main (int argc, char\* argv[])

{

int num = 10;

while (num>100);

do

{

printf("\n %d", num);

num--;

}

while(num>=0);

printf("\nBLAST OFF\n\n");

return 0;

} // main

**output**

abdullahs-MacBook-Pro:C abdullahalshubaili$ ./count

10

9

8

7

6

5

4

3

2

1

0

BLAST OFF

**Part C**

**source code**

/\*

cylinder.c: calculate a given height and radius of

a cylinder surface area and volume.

Oct 29, 2015: created by Abdullah Alshubaili

\*/

#include <stdio.h>

#define pi 3.1415926

int main (int argc, char\* argv[])

{

double h = 5.77;

double r = 6.1;

double s, v;

s = (r+h) \* 2 \* pi \* r;

v = pi \* r \* r \* h;

printf("The radius is %.3f, the height of the cylinder is %.3f, the surface area of the cylinder is %.3f\n and the volume of the cylinder is %.3f\n\n ", r, h, s, v);

if (r > h)

printf("The radius %.1f is larger than height %.1f\n", r, h);

if (h > r)

printf("The height %.1f is larger than radius %.1f\n", h, r);

return 0;

} // main

**output**

abdullahs-MacBook-Pro:C abdullahalshubaili$ ./cylinder

The radius is 6.100, the height of the cylinder is 5.770, the surface area of the cylinder is 454.947

and the volume of the cylinder is 674.505

The radius 6.1 is larger than height 5.8

**Part D**

**source code**

/\*

partD.c: this program print ascii values along with their

corresponding ascii character.

Oct 30, 2015: created by Abdullah Alshubaili

\*/

#include <stdio.h>

#define min 32

#define max 126

int main (int argc, char\* atgv[])

{

int i;

for (i = min; i<=max; i++)

{

printf("%d <%c> \n", i, i);

}

return 0;

}

**output**

abdullahs-MacBook-Pro:c abdullahalshubaili$ ./partD

32 < >

33 <!>

34 <">

35 <#>

36 <$>

37 <%>

38 <&>

39 <'>

40 <(>

41 <)>

42 <\*>

43 <+>

44 <,>

45 <->

46 <.>

47 </>

48 <0>

49 <1>

50 <2>

51 <3>

52 <4>

53 <5>

54 <6>

55 <7>

56 <8>

57 <9>

58 <:>

59 <;>

60 <<>

61 <=>

62 <>>

63 <?>

64 <@>

65 <A>

66 <B>

67 <C>

68 <D>

69 <E>

70 <F>

71 <G>

72 <H>

73 <I>

74 <J>

75 <K>

76 <L>

77 <M>

78 <N>

79 <O>

80 <P>

81 <Q>

82 <R>

83 <S>

84 <T>

85 <U>

86 <V>

87 <W>

88 <X>

89 <Y>

90 <Z>

91 <[>

92 <\>

93 <]>

94 <^>

95 <\_>

96 <`>

97 <a>

98 <b>

99 <c>

100 <d>

101 <e>

102 <f>

103 <g>

104 <h>

105 <i>

106 <j>

107 <k>

108 <l>

109 <m>

110 <n>

111 <o>

112 <p>

113 <q>

114 <r>

115 <s>

116 <t>

117 <u>

118 <v>

119 <w>

120 <x>

121 <y>

122 <z>

123 <{>

124 <|>

125 <}>

126 <~>