

Name:	SRN:PES2UG20CS198	Section:D
Mithul Chander B	Date:3/9/2020	Week Number:1

1	Write a program to take user input with different types of data types and display them on the screen.
	<p><b>Program:</b></p> <pre>#include &lt;iostream&gt; using namespace std;  int main() {     int p;     float q;     char r;     double d;     cout &lt;&lt; "Enter the integer value::\n";     cin &gt;&gt; p;     cout &lt;&lt; "Enter the float value::\n";     cin &gt;&gt; q;     cout &lt;&lt; "Enter the double value::\n";     cin &gt;&gt; d;     cout &lt;&lt; "Enter the character value::\n";     cin &gt;&gt; r;      cout &lt;&lt; "\nThe integer input is:\n" &lt;&lt; p &lt;&lt; "\n";     cout &lt;&lt; "\nThe float input is:\n" &lt;&lt; q &lt;&lt; "\n";     cout &lt;&lt; "\nThe double input is:\n" &lt;&lt; d &lt;&lt; "\n";     cout &lt;&lt; "\nThe string input is:\n" &lt;&lt; r &lt;&lt; "\n";      return 0; }</pre>
	<p><b>Output Screenshot:</b></p>

	<pre> Windows PowerShell Copyright (C) Microsoft Corporation. All rights reserved.  Try the new cross-platform PowerShell https://aka.ms/pscore6  PS C:\Users\Mithul\Desktop\vsc&gt; cd "c:\Users\Mithul\Desktop\vsc\C++\" ; if (\$?) { g++ week1a.cpp -o week1a } ; if (\$?) { .\week1a } Enter the integer value:: 3 Enter the float value:: 3.5 Enter the double value:: 4.566 Enter the character value:: a  The integer input is: 3  The float input is: 3.5  The double input is: 4.566  The string input is: a PS C:\Users\Mithul\Desktop\vsc\C++&gt; </pre>
2	<p><b>Write a program to demonstrate CLASS in c++ and compare the program with and without CLASS</b></p>
	<p><b>Program:</b></p> <pre> #include &lt;iostream&gt; using namespace std; /*class animal {     public:         int age;         string name; }; int main() {     animal s1;     s1.age = 201;     s1.name = "Tortoise";     cout&lt;&lt;s1.age&lt;&lt;endl;     cout&lt;&lt;s1.name&lt;&lt;endl;     return 0; } */  int main() {     int r=201;     string n="tortoise";     cout&lt;&lt;"Name"&lt;&lt;n&lt;&lt;endl;     cout&lt;&lt;"Age:"&lt;&lt;r&lt;&lt;endl;     return 0; } </pre>

	<pre>} </pre>
	<p><b>Output Screenshot:</b></p> <p>1)</p>  <pre> Windows PowerShell Copyright (C) Microsoft Corporation. All rights reserved.  Try the new cross-platform PowerShell https://aka.ms/pscore6  PS C:\Users\Mithul\Desktop\vsc&gt; cd "c:\Users\Mithul\Desktop\vsc\C++\" ; if (\$?) { g++ week1b.cpp -o week1b } ; if (\$?) { .\week1b } Tortoise Age:201 PS C:\Users\Mithul\Desktop\vsc\C++&gt; </pre> <p>2)</p>  <pre> Windows PowerShell Copyright (C) Microsoft Corporation. All rights reserved.  Try the new cross-platform PowerShell https://aka.ms/pscore6  PS C:\Users\Mithul\Desktop\vsc&gt; cd "c:\Users\Mithul\Desktop\vsc\C++\" ; if (\$?) { g++ week1b.cpp -o week1b } ; if (\$?) { .\week1b } Name:tortoise Age:201 PS C:\Users\Mithul\Desktop\vsc\C++&gt; </pre>
3	<p><b>Write a program to explain polymorphism.</b></p>
	<p><b>Program:</b></p> <pre> #include &lt;iostream&gt; using namespace std; int sum(int num1, int num2) {     return num1 + num2; }  double sum(double num1, double num2) {     return num1 + num2; }  int sum(int num1, int num2, int num3) {     return num1 + num2 + num3; }  int main() {     cout &lt;&lt; "Sum 1 = " &lt;&lt; sum(5, 6) &lt;&lt; endl;     cout &lt;&lt; "Sum 2 = " &lt;&lt; sum(5.5, 6.6) &lt;&lt; endl;     cout &lt;&lt; "Sum 3 = " &lt;&lt; sum(5, 6, 7) &lt;&lt; endl;      return 0; } </pre>

	<p><b>Output Screenshot:</b></p>  <pre> Windows PowerShell Copyright (C) Microsoft Corporation. All rights reserved.  Try the new cross-platform PowerShell https://aka.ms/pscore6  PS C:\Users\Mithul\Desktop\vsc&gt; cd "c:\Users\Mithul\Desktop\vsc\C++\" ; if (\$?) { g++ week1c.cpp -o week1c } ; if (\$?) { .\week1c } Sum 1 = 11 Sum 2 = 12.1 Sum 3 = 18 PS C:\Users\Mithul\Desktop\vsc\C++&gt; </pre>
4	<p><b>Write a program to calculate the area of the square.</b></p>
	<p><b>Program:</b></p> <pre> #include &lt;iostream&gt; #include&lt;stdlib.h&gt; using namespace std; int main() {     int length, area;     cout &lt;&lt; "\nEnter the Length of Square : ";     cin&gt;&gt;length;     area = length * length;     cout &lt;&lt; "\nArea of Square : " &lt;&lt; area;     return (0); } </pre>
	<p><b>Output Screenshot:</b></p>  <pre> PS C:\Users\Mithul\Desktop\vsc&gt; cd "c:\Users\Mithul\Desktop\vsc\C++\" ; if (\$?) { g++ week1d.cpp -o week1d } ; if (\$?) { .\week1d }  Enter the Length of Square : 4  Area of Square : 16 PS C:\Users\Mithul\Desktop\vsc\C++&gt; </pre>