## Assigment 1:

Snippets for the implemented code.

```
Assigment1-q1.sv
                                 Package Control Messages
     module datatype;
         //------bit signed [3:0] a;
bit signed [7:0] b;
         shortint signed c;
bit[3:0] d;
         real r;
         string mystring="SV Assigment1";
             typedef struct
              string name;
               int id;
               byte grade;
             }student_t;
          //-----End Of my struct-----
          //-----MY UNION -----
          typedef union{
             byte b;
          }data_u;
          //----End of my UNION-----
         bit unpacked [4:0]='{1,2,3,4,5};
         bit [1:0] packed_array [3:0]='{default:2'b10};
         byte unpacked2 [3:0]='{10,20,30,40};
         student_t students[2:0];
         data_u data;
                         -----INTIAL -BEGIN STATMENT-----
          initial begin
              b=250;
             c=-12345;
d= 4'b 1101;
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             $display(" value to a as decimal: %d",a);
$display(" value of b :%0d",b);
$display("Value of c :%0d",c);
             $diplay("Assigned value of d:%b",d);
             $display("Value of c : %f",r);
             $display("My string,%s",mystring);
```

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Snippets for the logs show the all printed values.

Snippet for the waveform shows the values for created variables

