```
21-
```

```
# include
          estalis. 42
# Include
        estdio. ho
It include esignal. 45
# include ctime. 4>
int time = 0
       start Stopmatch (int sig)
     time ++;
     safe_printf ( "Stopuntah increased.");
void stop Stopwatch (int sig)
     sife printf ("Stop witch stopped.
                    In Time: Y.d", time);
     exit (0);
int main ()
   signal (341, & start Stopmatch);
    signal (342, & stop Stopmatch);
    char input;
    while (1)
        scanf ("1.c", input);
        if (input == 'A')
            raise (341);
        if ( inpat == 'B')
            raise (342);
```

Q2-

We should define a procedure that does computation which we wanted when this interrupt is called. And then, we should jump to actual hardler. While we doing these computations, we should use stack to protect actual values of registers.

We cannot change handler, so we change interrupt vector table. Interrupt vector table will hold our function's address and we jump back to actual handler's address.

START: ; push all registers to stack.

mov! Y. eax, (interrupt vector entry); We don't know which entry is.

moul Yesi, OURHANDLER

moul Yedi, interrupt vector entry address

moul [Yed:], Yes: ; Putting our hadler's address to IVT.

OUR HANDLER:

; Do some calculations.

mov! "ecx, "eax; eex has actual hadders address.

; Pop all registers from stack except ecx.

jmp xeex; go back to actual handler.