```
program helloWorld;
#include ("stdlib.hhf");
begin helloWorld;
stdout.put("Hello, World of Assembly Language", nl);
end helloWorld;
2
program chaguaAlama;
#include ("stdlib.hhf");
static
op: char;
begin chaguaAlama;
stdout.put("Enter the character item:", nl);
stdin.get(op);
mov(op,ch);
if(ch ='a') then
  stdout.put("You selected the 'a' menu item", nl);
elseif(ch ='b') then
  stdout.put("You selected the 'b' menu item", nl);
elseif(ch ='c') then
  stdout.put("You selected the 'c' menu item", nl);
else
  stdout.put("Error: illegal menu item selection", nl);
endif;
end chaguaAlama;
```

end harafu;

```
program characters;
#include("stdlib.hhf");
static
c: char;
letterA: char:= 'A';
begin characters;
stdout.put("Initialised character value is",letterA,nl);
stdout.put("Enter a new character value:");
stdin.get(c);
stdin.put("You entered the following new character value:",c,nl);
end characters;
4
program harafu;
#include ("stdlib.hhf");
static
i32: int32;
begin harafu;
stdout.put("Enter the required value: ",i32,nl);
stdin.get(i32);
mov(i32,eax);
if(eax = 0) then
  stdout.put("error: NULL VALUE", nl);
endif;
```

```
5
```

```
program harafuHivi;
#include ("stdlib.hhf");
static
i32: int32;
begin harafuHivi;
stdout.put("Enter the required value: ", nl);
stdin.get(i32);
mov(i32,eax);
if(eax = 0) then
  stdout.put("error: NULL VALUE", nl);
else
  stdout.put("Pointer is valid", nl);
  endif;
end harafuHivi;
6
program hesabu;
#include ("stdlib.hhf");
static
i: int32;
begin hesabu;
mov(0,i);
while (i<10) do
stdout.put("i=", i, nl);
add(1,i);
```

endwhile;

```
end hesabu;
```

7

```
program hesabuFo;
#include ("stdlib.hhf");
static
i: int32;
begin hesabuFo;
mov(0,i);
for (mov(0, i); i<10; add(1,i)) do
stdout.put("i=", i, nl);
endfor;
end hesabuFo;
```

8

```
program ikiwaHarafu;
#include ("stdlib.hhf");
static
i32: int32;
begin ikiwaHarafu;
stdout.put("Enter the required value: ",i32,nl);
stdin.get(i32);
mov(i32,eax);
if(eax = 0) then
    stdout.put("error: NULL VALUE", nl);
endif;
end ikiwaHarafu;
```

```
program maneno;
#include("stdlib.hhf");
static
c: char;
letterA: char:= 'A';
begin maneno;
stdout.put("Initialised character value is ",letterA,nl);
stdout.put("Enter a new character value:");
stdin.get(c);
stdout.put("You entered the following new character value: ",c,nl);
end maneno;
10
program milele:
#include("stdlib.hff");
static
i: int32:
begin milele;
forever
```

stdout.put("Enter an integer less than 10:");

stdout.put(The value needs to be less than 10!, nl);

stdin.get(i);

breakif(i>10);

endfor;

end milele;

11

end rudiaHadi;

```
program numbers;
#include ("stdlib.hhf");
static
i8: int8;
i16: int16;
i32: int32;
begin numbers;
stdout.put("Enter integer values:",nl);
stdin.get(i8);
stdin.get(i16);
stdin.get(i32);
stdout.put("You have entered the following values:", nl);
stdout.put(i8,nl);
stdout.put(i16,nl);
stdout.put(i32,nl);
end numbers;
12
program rudiaHadi;
#include("stdlib.hhf");
begin rudiaHadi;
mov(20, eax);
repeat
stdout.put("eax =", eax, nl);
sub(1, eax);
until(eax = 0);
```