

## lect # 7

# Stage 2: Programming Fundamental

### Ethics

کو شش پوری در ہے ہوتے ہیں مگر کام سا standard

### Business

1st 80% project → 20% Energy

last 20% part → 80% Energy

Project Start سے Project Closure کو (س) Plan لیا کرتے ہیں

### Ethics

Programming Standard { Architecture  
cooling

### why programming ethics matter

- (i) وزن میں رکھتے ہیں
- (ii) نہ ہو جیٹ ڈیوڑھی
- (iii) نہ direct relation
- (iv) نہ Business Expand ہو نا
- (v) نہ ہو نا کہ آپ کی help ہے -

- Always try to write code
- Do your things - Make structure before coding
- code security must be strong.
- Integrity:- when no one is with you.

- Be transparent with client
- Code in such a way that is reusable.  
(generic approach)

• U. / فہم ہے

• کما حقہ بتا ہے

• کما حقہ بتا ہے

• U. / logically - client (1)

Do not be panic (2)

Do the testing (3)

why python ??

- is easy, large community support
- versatile & diverse - General purpose Language



- What is programming? (giving instructions to computer in some programming language)

Computer

to solve problem & automate tasks

- Key elements

↳ create step by step instructions

- understand problem and break it down

- analyze problem & design solution

Problem Solving

↳ most critical skill

↳ is about mindset

- Programming languages ✓

- Basic concepts

→ variables ✓

→ ✓ variable naming

(unique & descriptive names)

→ assign value to variable ✓

variable name = value

→ data types of variables

## • Server

### • DevOps & its importance

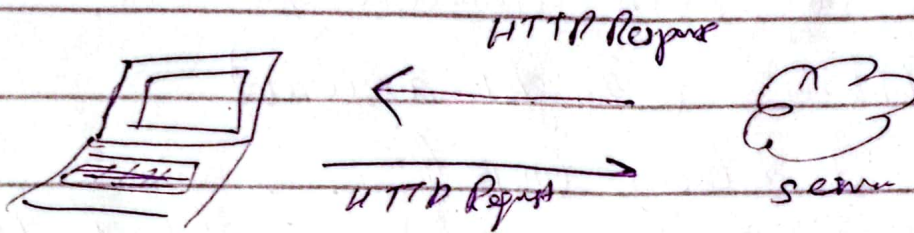
(client & server)

request

response

### • Main components of server

- (i) processor/CPUs
- (ii) RAM/Memory
- (iii) storage/hard-disk/SSD
- (iv) Network Card



### • DevOps (bridge b/w development & deployment)

### • concept of server address & domain name (IP Address) Public

example  $\Rightarrow$  192.168.1.1

unique address of each server